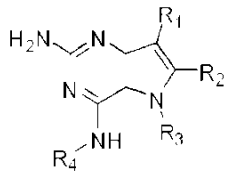
ÖZET

VİRAL ENFEKSİYONLARIN VE DİĞER HASTALIKLARIN TEDAVİSİNE YÖNELİK PİROLO[3,2-D]PİRİMİDİN DERİVATLARI

Bu buluş pirolo[3,2-*d*]pirimidin derivatları, bunların hazırlanmasına yönelik prosesler, farmasötik bileşimler ve bunların tedavisindeki kullanımları ve/veya hastalıkların tedavisi ile ilgilidir.

İSTEMLER

1. Formülün (I) bir bileşiği



(I)

ve bunların farmasötik olarak kabul edilebilir tuzları, solvatları veya polimorfları olup, 2-amino-4-(N-bütilamino)-5-(alfametilbenzil)pirolo[3,2-d] pirimidinin hariç tutulması koşuluyla, özelliği

R_1'in H, florin veya metil;

R_2'nin H, halojen veya C_{1-3} alkil;

R_3'ün ariloksi, halojen, aril, alkilamino, dialkilamino, C_{1-6} alkil, karboksilik asit, karboksilik ester, karboksilik amit, nitril veya C_{1-6} alkoksiden bağımsız olarak seçilen bir veya daha fazla sübstitüent ile ayrıca isteğe bağlı olarak sübstitüte edilen aril ile isteğe bağlı olarak sübstitüe edilen C_{1-6} alkil; veya

R_3'ün isteğe bağlı olarak C_{1-6} alken ile sübstitüe edilen C_{1-6} alkil, C_{3-7} sikloalkil veya C_{3-7} heterosikloalkil; veya

R_3'ün isteğe bağlı olarak ayrıca aril ile sübstitüe edilen C_{1-6} alkoksi ile isteğe bağlı olarak sübstitüe edilen C_{1-6} alkil;

R_4'ün hidroksil, C_{1-6} alkoksi, C_{1-6} alkil, C_{3-7} sikloalkil, C_{2-6} alkenil, aril, isteğe bağlı olarak C_{1-6} alkil ile sübstitüte edilen heteroaril ve ayrıca isteğe bağlı olarak C_{1-6} alkil ile sübstitüte edilen C_{3-7} sikloalkilden bağımsız olarak seçilen bir veya daha fazla sübstitüent ile isteğe bağlı olarak sübstitüe edilen C_{1-8} alkil olmasıdır.

2. İstem 1'e göre formülün (I) bir bileşiği olup, özelliği R_3'ün bir aril ile sübstitüte edilen (sübstitüe edilmiş veya sübstitüe edilmemiş) bir metil grup ve R_1, R_2 ve R_4'ün istem 1'de açıklandığı gibi olmasıdır.

3. İstem 1'e göre formülün (I) bir bileşiği olup, özelliği R_3 ve R_4'ün istem 1'de açıklandığı gibi ayrıca isteğe bağlı olarak sübstitüe edilen, bir aril ile sübstitüe edilen bir C_{1-3} alkil olmasıdır.

4. İstem 1'e göre formülün (I) bir bileşiği olup, özelliği R_1'in florin, R_2'nin hidrojen ve R_3 ve R_4'ün istem 1'de açıklandığı gibi olmasıdır.

5. Bir veya daha fazla farmasötik olarak kabul edilebilir eksipiyan, seyreltici veya taşıyıcı ile birlikte istem 1'e göre formülün (I) bir bileşiğini veya bunun farmasötik olarak kabul edilebilir bir tuzunu, solvatını veya polimorfunu içeren bir farmasötik bileşimdir.

6. İstem 1'e göre bir ilaç olarak kullanıma yönelik, formülün (I) bir bileşiği veya bunun farmasötik olarak kabul edilebilir bir tuzu, solvatı veya polimorfu veya istem 5'e göre formülün (I) söz konusu bileşiğini veya bunun farmasötik olarak kabul edilebilir bir tuzunu, solvatını veya polimorfunu içeren farmasötik bir bileşimdir.

TARİFNAME

VİRAL ENFEKSİYONLARIN VE DİĞER HASTALIKLARIN TEDAVİSİNE YÖNELİK PİROLO[3,2-D]PİRİMİDİN DERİVATLARI

Bu buluş pirolo[3,2-*d*]pirimidin derivatları, bunların hazırlanmasına yönelik prosesler, farmasötik bileşimleri ile ilgilidir.

Mevcut buluş pirolo-pirimidin derivatları, daha spesifik olarak viral enfeksiyonların, bağışıklık veya infamatuvar bozuklukların tedavisinde kullanılabilen pirolo[3,2-*d*]pirimidin derivatları ile ilgilidir, burada toll benzeri reseptörlerin (TLR'ler) modülasyonu veya agonizması dahildir. Toll-Benzeri Reseptörler bir korunan bölge içeren ekstraselüler lösin zengini bir alan ve bir siktoplazmik uzantı ile karakterize edilen primer transmembran proteinlerdir. Kalıtsal bağışıklık sistemi belirli bağışıklık hücrelerinin hücre yüzeyinde ifade edilen TLR'ler yoluyla patojen ilişkili moleküler modelleri içerebilir. Yabancı patojenlerin tanınması sitokinlerin üretimini ve fagositler üstünde yardımcı uyaran moleküllerinin yukarı doğru düzenlenmesini aktive eder. Bu T hücresi davranışının modülasyonuna yol açar.

Memeli türlerinin çoğunda on ila on beş Toll benzeri reseptör bulunur. İnsanlarda ve farelerde birlikte on üç TLR (basit bir şekilde TLR1 ila TLR13 olarak adlandırılır) tespit edilmiştir ve bunların çoğunun eşdeğer formları diğer memeli türlerinde bulunmuştur. Ancak, insanlarda bulunan bazı TLR'lerin eşdeğerleri tüm memelilerde bulunmaz. Örneğin, insanlardaki TLR 10'a benzer bir proteini kodlayan bir gen farelerde bulunur, fakat geçmişte bir noktada retrovirüs ile zarar görmüş olmalıdır. Diğer taraftan, farelerde hiçbiri insanlarda bulunmayan TLR 11, 12 ve 13 yer alır. Diğer memeliler insanlarda bulunmayan TLR'ler içerebilir. Diğer memeli olmayan türler, Takifugu kirpi balığında bulunan TLR 14 ile gösterilen memelilerden farklı TLR'lere sahip olabilir. Bu insan kalıtsal bağışıklığının modelleri olarak deneysel hayvanları kullanma prosesini karmaşıklaştırabilir.

Toll benzeri reseptörler ile ilgili incelemeler hakkında bilgi almak amacıyla, aşağıdaki makalelere bakabilirsiniz. Hoffmann, J.A., Nature, 426, p33-38, 2003; Akira, S., Takeda, K., and Kaisho, T., Annual Rev. Immunology, 21, p335-376, 2003; Ulevitch, R. J., Nature Reviews: Immunology, 4, p512-520, 2004.

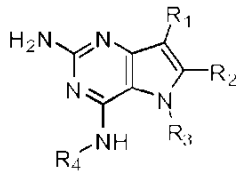
Toll Benzeri reseptörlerdeki aktiviteyi belirten bileşikler WO2000006577 içinde heterosiklik derivatlar, WO 98/01448 ve WO 99/28321 içinde adenin derivatlar ve WO 2009/067081 içinde pirimidinler olarak önceden açıklanmıştır.

Bazı viral enjeksiyonların tedavisinde, hepatit C virüsünde (HCV) olduğu gibi düzenli interferon (IFN-alfa) enjeksiyonları uygulanabilir (Fried et. al. Peginterferon-alfa plus ribavirin for chronic hepatitis C virus infection, *N Engl J Med* 2002; 347: 975-82). Oral olarak uygulanabilen küçük molekül IFN indükleyicileri azalan imünojenisite ve uygulama kolaylığı gibi potansiyel avantajlar sunar. Bu yüzden, yeni IFN indükleyicileri virüs enfeksiyonları tedavi etmeye yönelik potansiyel olarak etkili yeni sınıf ilaçlardır. Antiviral etkiye sahip IFN indükleyicide bir küçük molekül literatüründe bir örnek görmek amacıyla bakınız De Clercq, E.; Descamps, J.; De Somer, P. *Science* 1978, 200, 563-565.

Bazı kanser türlerinin tedavisinde diğer ilaçlar ile birlikte hastalara interferon alfa da verilir (Eur. J. Cancer (46) p 2849-57 ve Cancer Res. 1992 (52) p.1056). TLR 7/8 agonistleri belirtilen Th1 tepkisi indükleme özellikleri nedeniyle aşı adjuvanları olarak da önemlidir (Hum.Vaccines, 2009 (5), 381•394).

Ancak, önceki tekniğin bileşikleri ile karşılaştırıldığında tercih edilen selektiviteye ve iyileştirilmiş bir güvenlik profiline sahip olan Toll Benzeri reseptör modülatörlerine yönelik kuvvetli bir ihtiyaç da bulunur.

Mevcut buluş uyarınca bir formülün (I) bileşiği



(I)

ve bunların farmasötik olarak kabul edilebilir tuzları, solvatları veya polimorfları sağlanır, burada 2-amino-4-(N-bütilamino)-5-(alfametilbenzil)pirolo[3,2-d] pirimidinin hariç tutulması koşuluyla

R_1, H, florin veya metildir;

R_2, H, halojen veya C_{1-3} alkildir;

R_3, ariloksi, halojen, aril, alkilamino, dialkilamino, heterosikloalkil, C_{1-6} sikloalkil, C_{1-6} alkil, karboksilik asit, karboksilik ester, karboksilik amit, nitril veya C_{1-6} alkoksiden bağımsız olarak seçilen bir veya daha fazla sübstitüent ile ayrıca isteğe bağlı olarak sübstitüte edilen aril ile isteğe bağlı olarak sübstitüe edilen C_{1-6} alkildir; veya

R_3 isteğe bağlı olarak C_{1-6} alken ile sübstitüe edilen C_{1-6} alkil, C_{3-7} sikloalkil veya C_{3-7} heterosikloalkildir; veya

R_3 isteğe bağlı olarak ayrıca aril ile sübstitüe edilen C_{1-6} alkoksi ile isteğe bağlı olarak sübstitüe edilen C_{1-6} alkildir;

R_4 hidroksil, C_{1-6} alkoksi, C_{1-6} alkil, C_{3-7} sikloalkil, C_{2-6} alkenil, aril, isteğe bağlı olarak C_{1-6} alkil ile sübstitüte edilen heteroaril ve ayrıca isteğe bağlı olarak C_{1-6} alkil ile sübstitüte edilen C_{3-7} sikloalkilden bağımsız olarak seçilen bir veya daha fazla sübstitüent ile isteğe bağlı olarak sübstitüe edilen C_{1-8} alkildir.

Tercih edilen bileşikler formülünkilerdir (I), burada R_3 bir aril ile sübstitüte edilen (sübstitüe edilmiş veya sübstitüe edilmemiş) bir C_{1-3} alkil gruptur ve R_1, R_2 ve R_4 yukarıda açıklandığı gibidir.

Bir ikinci düzenlemede, formülün (I) bileşikleridir, burada R_3 ve R_4 bir aril ile sübstitüe edilen, ayrıca isteğe bağlı olarak yukarı açıklandığı gibi sübstitüe edilen bir C_{1-3} alkildir.

Bir diğer düzenlemede formülün (I) bileşikleridir, burada R_1 hidrojen, R_2 florin ve R_3 ve R_4 yukarıda açıklandığı gibidir.

Diğer tercih edilen düzenlemeler formülünkilerdir (I), burada R_1 florin ve R_2 hidrojen ve R_3 ve R_4 yukarıda açıklandığı gibidir.

Aşağıdaki numaralara sahip olan (# 89, 94, 101, 144, 154, 156, 175, 192, 209, 213 ve 215) Tablo I ve II'de sıralanan bileşikler, burada açıklanan buluşa göre özellikleri nedeniyle özellikle önemlidir.

Formülün (I) bileşikleri ve farmasötik olarak kabul edilebilir tuzu, solvat veya polimorfu farmasötikler olarak, özellikle Toll-Benzeri Reseptör (özellikle TLR7 ve/veya TLR8) olarak aktiviteye sahiptir.

Bir diğer açıda mevcut buluş formülün (I) bir bileşiğini veya farmasötik olarak kabul edilebilir bir veya daha fazla eksipiyan, seyreltici veya taşıyıcısı olan bir bileşiğini veya bunun farmasötik olarak kabul edilebilir bir tuzunu, solvatını veya polimorfunu içeren bir farmasötik bileşim sağlar.

Ayrıca, mevcut buluşa göre formülün (I) bir bileşiğini veya bunun farmasötik olarak kabul edilebilir bir tuzu, solvatı veya polimorfunu veya söz konusu formülün (I) bileşiğini veya farmasötik olarak kabul edilebilir bir tuzunu, solvatını veya polimorfunu içeren farmasötik bir bileşim bir ilaç olarak kullanılabilir.

Formülün (I) bir bileşiği veya farmasötik olarak kabul edilebilir bir tuzu, solvatı veya polimorfu veya söz konusu formülün (I) bileşiğini veya farmasötik olarak kabul edilebilir tuzu, solvatı veya polimorfunu içeren söz konusu farmasötik bileşim TLR7 ve/veya TLR8'in modülasyonunun yer aldığı herhangi bir bozukluğun tedavisinde uygun bir şekilde kullanılabilir.

"Alkil" ifadesi belirtilen sayıda karbon atomunu içeren bir düz zincir veya dallara ayrılmış zincir doymuş alifatik hidrokarbona refere eder.

"Halojen" ifadesi florin, klorin, bromin veya iyodine refere eder.

"Alkenil" ifadesi en az iki karbon atomu ve en az bir karbon-karbon ikili bağından oluşan yukarıda belirtildiği gibi bir alkil içerir.

"Sikloalkil" ifadesi belirtilen sayıda karbon atomunu içeren karbosiklik bir halkaya refere eder.

"Alkoksi" ifadesi metoksi grubu veya etoksi grubu gibi oksijen benzerine tekli bağlı bir alkil (karbon ve hidrojen zinciri) gruba refere eder.

"Aril" ifadesi N, O ve S'den, özellikle N ve O'dan seçilen isteğe bağlı olarak bir veya iki heteroatomu içeren bir aromatik halka yapısı anlamına gelir. Söz konusu aromatik halka yapısı 5, 6 veya 7 halka atomuna sahip olabilir. Özellikle, söz konusu aromatik halka yapısı 5 veya 6 halka atoma sahip olabilir. Söz konusu aromatik halka yapısı bisiklik yapıyı destekleyen bir başka aril halka yapısına da bağlanabilir (örnekler aşağıdakiler ile sınırlı olmamak kaydıyla şunları içerir: kinolin, izokinolin, kinazolin, benzoksazol).

"Ariloksi" ifadesi bir aromatik halka yapısına refere eder. Söz konusu aromatik grup oksijene tekli bağlıdır (örneğin fenoksi).

"Alken" ifadesi en az bir karbon-karbon ikili bağını içeren belirtilen sayıda karbon atomunu içeren doymamış bir hidrokarbon zincirine refere eder.

"Heterosiklik" ifadesi doymuş veya kısmen doymuş moleküllere refere eder ve tetrahidrofuran, dioksan veya diğer siklik eterleri içerir. Nitrojen içeren heterosiklikler arasında örneğin azetidin, morfolin, piperidin, piperazin, pirolidin ve benzeri yer alır. Diğer heterosiklikler örneğin tiomorfolin, dioksolinil ve siklik sülfonları içerir.

Formülün (I) bileşiklerinin farmasötik olarak kabul edilebilir tuzları asit katkısını ve bunun baz tuzlarını içerir. Uygun asit katkı tuzları toksik olmayan tuzları oluşturan asitlerden oluşturulur. Uygun baz tuzları toksik olmayan tuzları oluşturan bazlardan oluşturulur.

Buluşun bileşikleri ayrıca, solvatlanmamış ve solvatlanmış formlarda mevcut olabilir. "Solvat" ifadesi burada buluşun bileşiğini ve bir veya daha fazla farmasötik olarak kabul edilebilir solvent molekülünü, örneğin etanolü içeren bir moleküler kompleksi açıklamak üzere kullanılır.

"Polimorf" ifadesi buluşun bileşiğinin birden fazla formda veya kristal yapıda bulunma özelliğine refere eder.

Mevcut buluşun bileşikleri kristalin veya amorf ürünler olarak uygulanabilir. Presipitasyon, kristalizasyon, dondurarak kurutma, sprey kurutma veya buharla kurutma gibi yöntemler ile örneğin katı dolgu maddeleri, tozlar veya filmler olarak elde

edilebilirler. Tek başına veya buluşun bir veya daha fazla bileşiği ile kombinasyon halinde veya bir veya daha fazla diğer ilaç ile kombinasyon halinde uygulanabilirler. Genellikle, bir veya daha fazla farmasötik olarak kabul edilebilir eksipiyan ile birlikte bir formülasyon olarak uygulanırlar. Burada "eksipiyan" ifadesi buluşun bileşiğinden(bileşiklerinden) başka herhangi bir içerik maddesini açıklamak üzere kullanılır. Eksipiyan seçimi büyük ölçüde özel uygulama modu, eksipiyanın çözünürlüğe ve stabiliteye etkisi ve dozaj formunun doğası gibi faktörlere bağlıdır.

Mevcut buluşun veya bunun herhangi bir alt grubunun bileşikleri uygulama amaçlarına yönelik olarak çeşitli farmasötik formlarda formüle edilebilir. Uygun bileşimler olarak genellikle sistematik bir şekilde kullanılan ilaçları içeren tüm bileşimler belirtilebilir. Bu buluşun farmasötik bileşimlerini hazırlamak üzere, özel bileşiğinin etkili bir miktarı, isteğe bağlı olarak katkı tuzu formunda, aktif içerik maddesi olarak farmasötik olarak kabul edilebilir bir taşıyıcı ile sıkı bir karışım halinde kombine edilir, bu taşıyıcı uygulamaya yönelik istenen preparat formuna bağlı olarak çok çeşitli formda olabilir. Bu farmasötik bileşimlerin örneğin oral, rektal veya perkütan uygulama açısından uygun birim dozaj formunda olması tercih edilir. Örneğin oral dozaj formunda bileşimlerin hazırlanmasında süspansiyonlar, şuruplar, eliksirler, emülsiyonlar ve solüsyonlar gibi oral sıvı preparatlar durumunda örneğin su, glikoller, yağlar, alkoller ve benzeri veya tozlar, haplar, kapsüller ve tabletler durumunda nişastalar, şekerler, kaolin, seyrelticiler, yağlayıcılar, bağlayıcılar, dağıtıcı ajanlar ve benzeri gibi katı taşıyıcılar gibi herhangi bir genel farmasötik ortam kullanılabilir. Uygulamadaki kolay kullanımı nedeniyle tabletler ve kapsüller en avantajlı oral dozaj birim formlarını temsil ederi bu durumda katı farmasötik taşıyıcılar belirgin şekilde kullanılır. Ayrıca kullanımdan hemen önce sıvı formlara dönüştürülebilen katı form preparatları da bulunur. Perkütan uygulamaya yönelik uygun bileşimlerde, taşıyıcı isteğe bağlı olarak, az oranlarda herhangi bir yapıdaki uygun katkı maddesi ile isteğe bağlı olarak kombine edilen bir penetrasyon arttırma ajanı ve/veya uygun bir ıslatma ajanı içerir, bu katkı maddeleri deriye karşı önemli zararlı bir etkiye neden olmaz. Söz konusu katkı maddeleri deriye uygulanmayı kolaylaştırabilir ve/veya istenen bileşimleri hazırlamaya yararlı olabilir. Bu bileşimler örneğin transdermal bir yol olarak, tam yerine uygulama olarak, bir merhem şeklinde çeşitli yollarla uygulanabilir. Mevcut buluşun bileşikleri bu yöntem ile uygulamaya yönelik teknikte kullanılan yöntemler ve formülasyonlar yardımıyla inhalasyon veya insuflasyon yoluyla da uygulanabilir. Böylece, genelde mevcut buluşun bileşikleri bir solüsyon, süspansiyon veya kuru toz formunda ciğerlere uygulanabilir.

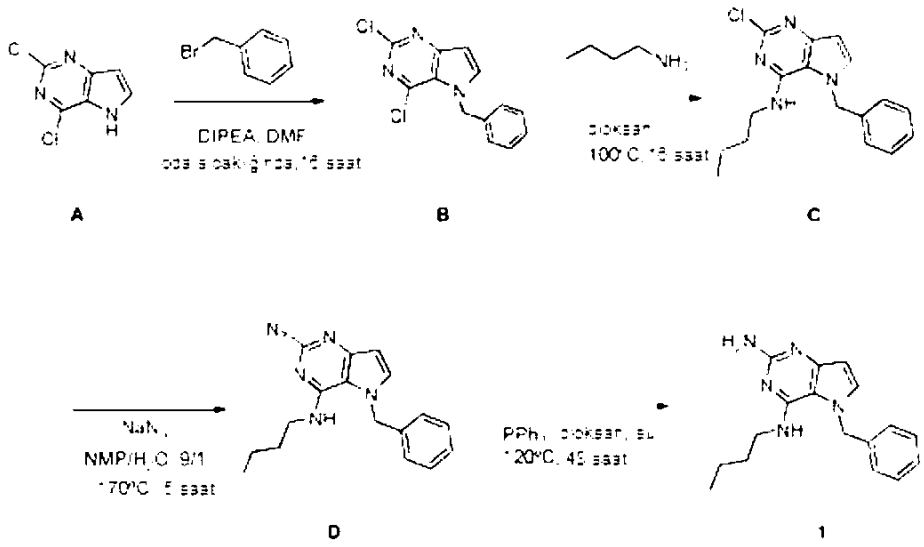
Yukarıda açıklanan farmasötik bileşimlerin uygulama kolaylığı ve dozaj homojenliği bakımından birim dozaj formunda formüle edilmesi özellikle avantajlıdır. Burada kullanılan birim dozaj formu, birim dozaj formları olarak uygun olan fiziksel açıdan ayrı birimlere refere eder, her bir birim gerekli farmasötik taşıyıcı ile ilişkili olarak istenen terapötik etkiyi üretmek üzere hesaplanan aktif bileşenin önceden belirlenen bir miktarını içerir. Bu tür birim dozaj formlarının örnekleri, tabletleri (çentiklenmiş veya kaplanmış tabletler), kapsüller, haplar, toz paketler, pullar, supozituvarlar, enjekte edilebilir solüsyonlar veya süspansiyonlar ve benzeri ve bunların ayrılmış katlarıdır.

Bulaşıcı hastalıkların tedavisinde uzman kişiler, buradan sonra sunulan test sonuçlarından etkili miktarı kolay bir şekilde belirleyebilecektir. Genellikle etkili bir günlük miktarın 0.01 mg/kg ila 50 mg/kg vücut ağırlığı, daha çok tercih edildiği üzere 0.1 mg/kg ila 10 mg/kg vücut ağırlığı arasında olması beklenir. Gerekli dozun gün boyunca uygun aralıklarda iki, üç, dört veya daha fazla alt dozlar olarak uygulanması uygun olabilir. Söz konusu alt dozlar örneğin birim dozaj formu başına örneğin 1 ila 1000 mg, özellikle 5 ila 200 mg aktif içerik içeren birim dozaj formları olarak formüle edilebilir.

Uygulamanın tam dozajı ve sıklığı, teknikte uzman kişilerce iyi bilindiği üzere kullanılan formülün (I) özel bileşiğine, tedavi edilen belirli duruma, tedavi edilen durumun ciddiyetine, belirli hastanın yaş, ağırlık ve genel fiziksel durumu ve ayrıca bireyin aldığı diğer ilaç tedavisine bağlıdır. Ayrıca etkili günlük miktarın tedavi edilen kişinin yanıtına bağlı olarak ve/veya mevcut buluşa ait bileşikleri reçete ile veren hekimin değerlendirilmesine bağlı olarak düşürülebildiği veya artırılabildiği bilinir. Bu yüzden yukarıda belirtilen etkili miktar aralıkları sadece anahatları sağlamaya yöneliktir ve buluşun kapsamını veya kullanımını hiçbir şekilde sınırlamayı amaçlamaz.

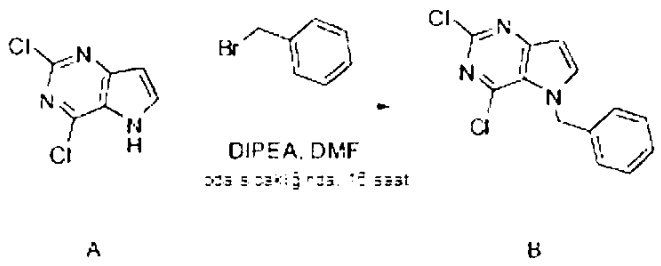
Deneysel Bölüm

Şema 1. Tüm reaksiyon şeması



Şemadaki (1) tip (**A**) bileşikleri bir polar aprotik solvent, örneğin DMF kullanılarak benzil bromitler ile alkillenebilir. Alkil halitlerin ara ürün (**A**) ile reaksiyonu daha kuvvetli bir baz (örneğin sezyum karbonat) ve muhtemelen daha uzun bir reaksiyon süresi ve/veya daha yüksek sıcaklık gerektirir. Tipte (**C**) bileşikler oluşturmak üzere ara üründeki (**B**) klorinin bir amin ile değiştirilmesi aminoalkoller ile gözlendiği gibi daha fazla ısıtma veya uzun reaksiyon süresi gerektirebilir (aminoalkollerin hazırlanması hakkında bilgi alma amacıyla WO2009067081 ve WO2008147697'ye refere edin). Ara üründeki (**B**) klorinin bir amin ile değiştirilmesi oda sıcaklığında bir polar solvent (örneğin DMF veya asetonitril) içinde de gerçekleşebilir. Reaksiyonda (**B**'den **C**'ye) destek olmak amacıyla aşağıdakiler ile sınırlı olmamak kaydıyla çeşitli bazlar kullanılabilir: trietilamin, diizopropilamin, sezyum karbonat, potasyum karbonat veya sodyum hidrit. Ara ürün (**D**) ile ifade edilen bileşiklerdeki azido grubun azalması bir hidrojen atmosferinde Pd/C üstünden de gerçekleşebilir. Florin içeren ara ürünler (**B**, **C** ve **D**) sübstitüe edilmemiş analoglar gibi aynı protokoller altında sübstitüe edilebilir, bu yüzden açıklanan reaksiyon şemaları her iki bileşik türünde de geçerlidir.

Ara ürün B'nin hazırlanması

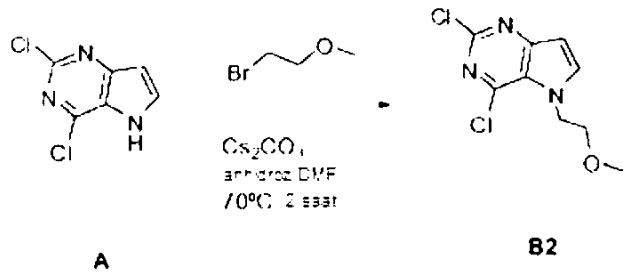


A B

50 mL'lik bir viyale, 2,4-dikloro-5H-pirolo[3,2-*d*]pirimidin [CAS 63200-54-4] (1 g, 5.319 mmol), DMF (10 mL), DIPEA (2.75 mL, 16 mmol) ve benzil bromür (0.7 mL, 5.85 mmol) koyulmuştur. Viyal kapatılmıştır ve 16 saat boyunca oda sıcaklığında çalkalanmıştır. Solventler azaltılmış basınç altında çıkarılmıştır. Ham ürün heptan ila etil asetat gradiyent kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. En iyi kesitler toplanmış ve **B**'yi sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

LC-MS (M+H) m/z = 278

Ara ürün B2'nin hazırlanması

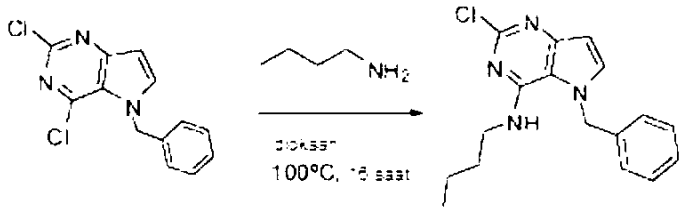


A B2

Bir manyetik karıştırma çubuğu bulunan 50 mL'lik bir viyale, **A** (50 mg, 0.27 mmol), susuz DMF (1 mL), sezyum karbonat (0.259 g, 0.8 mmol) ve sonra 2-bromoetil metil eter (0.03 mL, 0.29 mmol) koyulmuştur. Balon kapatılmış ve reaksiyon 2 saat boyunca 70°C'de karıştırılmaya bırakılmıştır. Solventler azaltılmış basınç altında çıkarılmıştır. Ham ürün heptan ila etil asetat gradiyent kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. En iyi kesitler toplanmış ve **B2**'yi sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

LC-MS (M+H) m/z = 246

Ara ürün C'nin hazırlanması

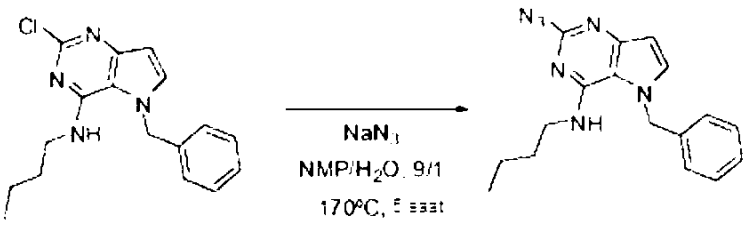


B **C**

Bir manyetik karıştırma çubuğu bulunan 50 mL'lik bir yuvarlak tabanlı balona, **B** (1.4 g, 5.03 mmol), *n*-bütilamin (0.59 mL, 6.04 mmol) ve 1,4-dioksan (5 mL) koyulmuştur. Balonda bir reflü kondensatör kullanılmıştır ve 16 saat boyunca 100°C'de karıştırılarak ısıtılmıştır. Oda sıcaklığına soğutulduktan sonra, solventler azaltılmış basınç altında çıkarılmıştır. Ham ürün heptan ila etil asetat gradiyent kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. En iyi kesitler toplanmış ve **C**'yi sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

LC-MS (M+H) m/z = 315

Ara ürün D'nin hazırlanması



C **D**

Bir manyetik karıştırma çubuğu bulunan bir cam viyale, **C** (1 g, 3.18 mmol), sodyum azit (0.62 g, 9.53 mmol) ve NMP:su (9:1, 4 mL) koyulmuştur. Cam viyal kapatılmış ve karışım 5 saat boyunca karıştırılarak 170°C'ye ısıtılmıştır. Oda sıcaklığına soğutulduktan sonra, karışım etil asetat (20 mL) ile seyreltilmiş ve su (5 x 15 mL) ile yıkanmıştır. Organik katman magnezyum sülfat ile kurutulmuş, katı maddeler filtrasyon ile çıkarılmıştır ve filtratın solventleri azaltılmış basınç altında çıkarılmıştır. Ham ürün heptan ila etil asetat gradiyent kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. En iyi kesitler toplanmış ve **D**'yi sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

LC-MS (M+H) m/z = 322

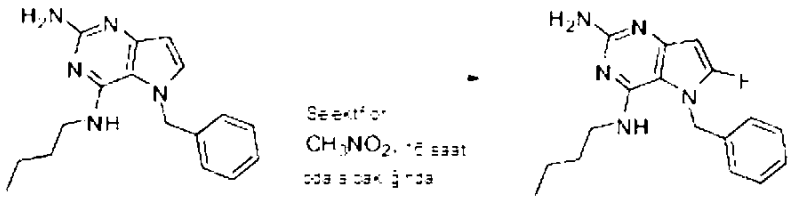
1'in Hazırlanması

D **1**

Bir manyetik karıştırma çubuğu bulunan cam viyale, **D** (100 mg, 0.311 mmol), 1,4-dioksan (4 mL), su (1 mL) ve trifenilfosfin (245 mg, 0.93 mmol) koyulmuştur. Cam viyal kapatılmış ve karışım 48 saat boyunca karıştırılarak 120°C'ye ısıtılmıştır. Oda sıcaklığına soğutulduktan sonra, solventler azaltılmış basınç altında çıkarılmıştır. Ham ürün diklorometan gradiyent içinde diklorometan %10 metanol kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. En iyi kesitler toplanmış ve **1**'i sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

LC-MS (M+H) m/z = 296

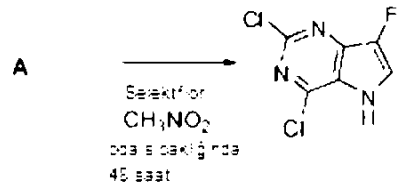
86'nın Hazırlanması



1 86

Bir manyetik karıştırma çubuğu bulunan cam viyale, **1** (110 mg, 0.372 mmol), nitrometan (1.5 mL) ve selektflor (198 mg, 0.56 mmol) koyulmuştur. Cam viyal kapatılmış ve karışım 16 saat boyunca oda sıcaklığında karıştırılmıştır. Solventler azaltılmış basınç altında çıkarılmıştır. Ham ürün ters azaltılmış basınç altında saflaştırılmıştır. En iyi kesitler toplanmış ve **86**'yı sağlamak üzere azaltılmış basınç altında solventler çıkarılmıştır.

Ara ürün E'nin hazırlanması

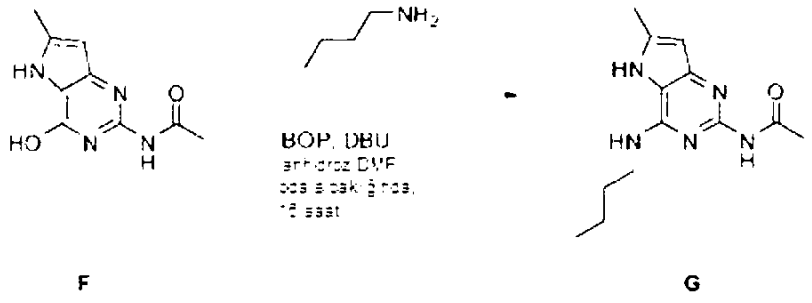


E

Bir manyetik karıştırma çubuğu bulunan cam viyale, **A** (600 mg, 3.19 mmol), nitrometan (10 mL) ve selektflor (5.67 g, 16 mmol) koyulmuştur. Cam viyal kapatılmış ve karışım 48 saat boyunca oda sıcaklığında karıştırılmıştır. $NaHCO_3$ (doymuş aköz, 10 mL) eklenmiş ve etil asetat (3 x 15 mL) ile ayrıştırılmıştır. Organik katmanlar toplanmış, magnezyum sülfat ile kurutulmuş, katı maddeler filtrasyon ile çıkarılmış ve sonraki adımda kullanıldığı gibi **E**'yi sağlamak üzere filtratın solventi azaltılmış basınç altında çıkarılmıştır.

LC-MS (M+H) m/z = 206

Ara ürün G'nin hazırlanması



F G

Adım 1.

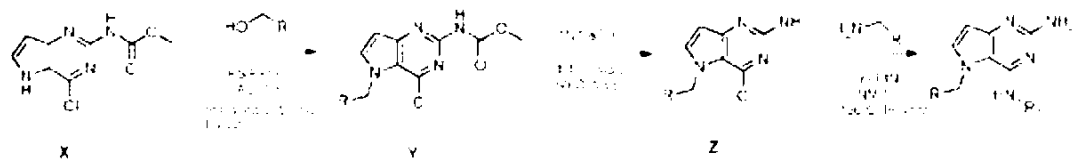
Ara ürün (**F**), WO2010006025'in 44. sayfasında şemadaki (3) bileşiği (9) hazırlamak üzere kullanılan yönteme göre hazırlanmıştır. Bunun tek istisnası asetil grup trimetilasetil grupta kullanılmıştır.

Adım 2. Ara ürün G'nin hazırlanması

Bir manyetik karıştırma çubuğu bulunan 50 mL'lik cam viyale, **F** (200 mg, 0.97 mmol), susuz DMF (5 mL), DBU (0.435 mL, 2.91 mmol) ve BOP (536 mg, 1.2 mmol) koyulmuştur. Reaksiyon karışımı birkaç dakika boyunca karıştırıldıktan sonra bir solüsyon haline gelir, sonra *n*-bütilamin (0.48 mL, 4.85 mmol) eklenmiş ve karıştırma oda sıcaklığında 16 saat boyunca devam eder. Solvent azaltılmış basınç altında çıkarılmış ve ham ürün ters faz kromatografisi ile saflaştırılmıştır.

LC-MS (M+H) m/z = 262

Şema 2. Tüm reaksiyon şeması

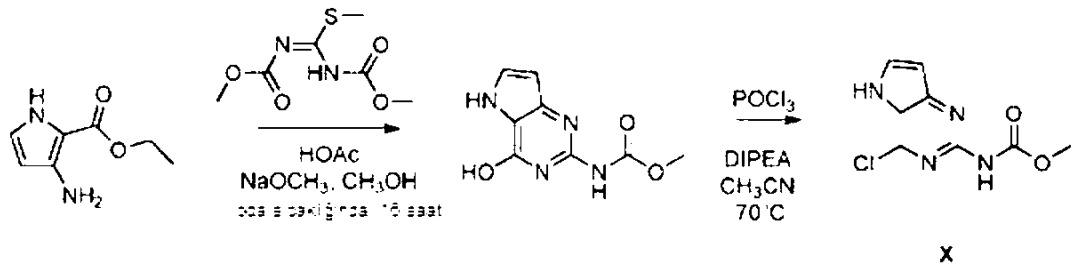


X Y Z

Genel prosedür. Şemadaki (2) tip (**X**) bileşikleri bir polar aprotik solvent, örneğin THF içinde Mitsunobu koşulları kullanılarak alkoller ile fonksiyonelleştirilebilir. Metil karbamatın klevajı ara ürünü (**Z**) oluşturmak üzere 1,4-dioksan içinde temel koşullar

altında gerçekleştirilmiştir. Formülün (I) bileşiklerini oluşturmak üzere ara üründeki (**Z**) klorinin bir polar solvent (örneğin NMP) içindeki bir amin ve bir baz (örneğin NaH) ile değiştirilmesi gerçekleştirilmiştir.

Ara ürün X'in hazırlanması

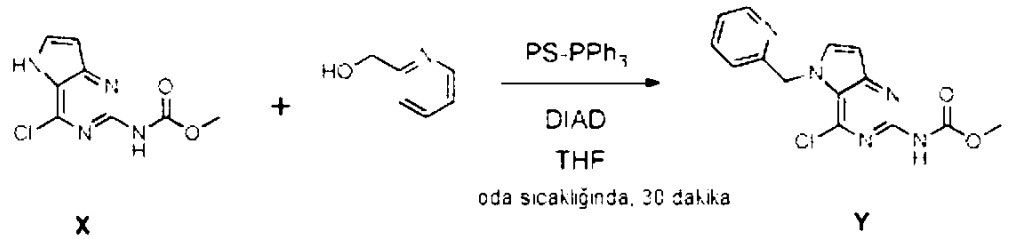


X

3-Amino-2-etoksikarbonilpirol hidroklorür (25.8 g, 135.3 mmol) diklorometan ve doymuş $NaHCO_3$ arasında ayrılmış, $MgSO_4$ ile kurutulmuş ve kurutuluncaya kadar buharlaştırılmıştır. Kalıntı 1,3-bis(metoksikarbonil)-2-metil-2-tiopsödoüre (32.1 g, 156 mmol) ve asetik asit (39 mL, 677 mmol) ile birlikte metanol içinde çözündürülmüş ve oda sıcaklığında 1 saat boyunca karıştırılmıştır. Bir presipitat ortaya çıkmıştır ve karıştırma gece boyunca devam ettirilmiştir. Sodyum metoksit (73.1 g, 1353 mmol) eklenmiştir. Bir egzoterm gözlenmiş ve reaksiyon karışımı gece boyunca karıştırılmıştır. Reaksiyon karışımı asetik asitin eklenmesi yoluyla pH 5 derecesine getirilmiş ve presipitat filtrelenmiş, su (2 x 350 mL), asetonitril (1 x 350 mL) ve diizopropileter (1 x 350 mL) ile toz haline getirilmiştir. Elde edilen metil N-(4-hidroksi-5H-pirolo[3,2-d]pirimidin-2-il)karbamat fırında kurutulmuştur.

Metil N-(4-hidroksi-5H-pirolo[3,2-d]pirimidin-2-il)karbamat (25 g, 120 mmol) 500 mL'lik çok boyunlu bir balon içinde oda sıcaklığında asetonitrile (350 mL) dağıtılmıştır. $POCl_3$ (22.1 mL, 238.2 mmol) eklenmiş ve reaksiyon karışımı bir üstten, mekanik karıştırıcı (300 rpm) ile karıştırılarak 70°C'ye ısıtılmıştır. Hunig bazı (41.4 mL, 240.2 mmol) 0.2 mL/dakika akış oranında bir şırınga pompası ile damla damla eklenmiştir. Reaksiyon karışımı oda sıcaklığına soğutulmuş ve su içinde (500 mL) 45°C'de bir karıştırılmış sodyum asetat solüsyonuna (78.8 g, 961 mmol) dökülmüştür. Organik maddeler buharlaştırılmış ve kalan sıvı bir buz banyosunda soğutulmuştur. Oluşturulan katı madde filtrasyon ile ayrılmış, asetonitril ile yıkanmış ve vakum altında kurutulan bir katı madde olarak ara ürün (**X**) elde etmek üzere diizopropileter ile toz haline getirilmiştir.

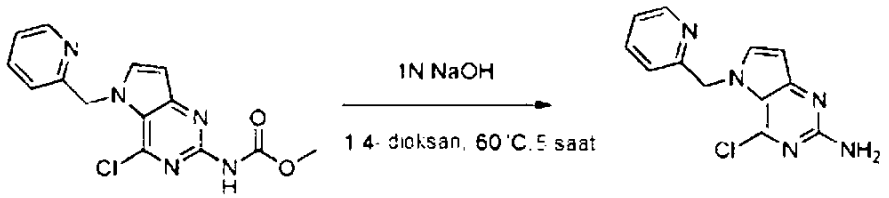
Ara ürün Y'nin hazırlanması



X Y

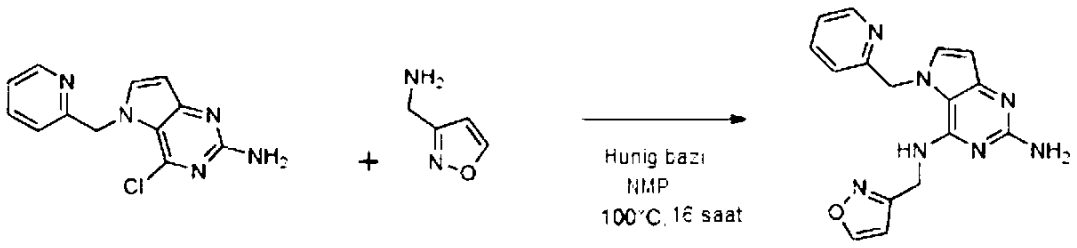
Susuz (THF) (153 mL) içindeki bir ara ürün (**X**) süspansiyonuna (5 g, 22 mmol), 2-piridinmetanol (2.6 mL, 26.5 mmol) ve polistiren-bağlı trifenilfosfin (18.4 g, 55.2 mmol) oda sıcaklığında DIAD (6.9 mL, 33 mmol) eklenmiş ve reaksiyon karışımı 30 dakika boyunca karıştırılmış sonra azaltılmış basınç altında konsantre edilmiştir. Ürün gradiyent bir diklorometan:metanol 100:0 ila 90:10 gradiyent kullanılarak silika jel sütun kromatografisi yoluyla saflaştırılmıştır. Ürün kesitleri toplanmış ve basınç altında konsantre edilmiştir. Ürün asetonitril içinde tekrar kristalize edilmiş, filtrasyon ile ayrılmış ve bir beyaz katı madde olarak **Y**'yi sağlamak üzere vakum altında kurutulmuştur.

Ara ürün Z'nin hazırlanması



Y Z

Y (4.5 g, 14.2 mmol) 100 mL'lik bir yuvarlak tabanlı balonda 1,4-dioksan (68 mL) içinde çözündürülmüş ve 1 N NaOH (34 mL) eklenmiştir. Karışım, 5 saat boyunca 60°C'ye ısıtılmıştır. Karışım soğutulmuştur ve azaltılmış basınç altında konsantre edilmiştir. Kalıntı su ile işlenmiştir ve presipitat filtrasyon ile ayrılmış ve **Z**'yi sağlamak üzere kurutulmuştur. Ürün sonraki adımda bu şekilde kullanılmıştır.

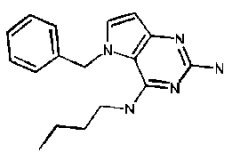


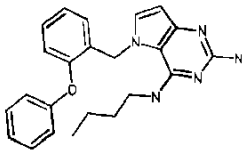
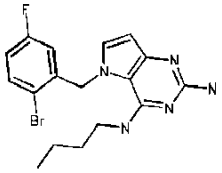
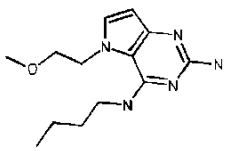
Z **155**

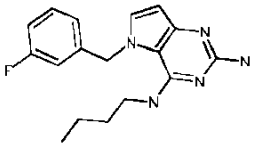
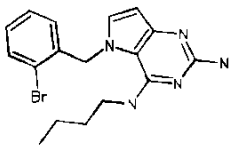
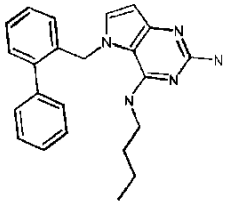
Z (175 mg, 0.67 mmol), izoksazol-3-il-metilamin hidroklorür (136 mg, 1.0 mmol) ve diizopropiletilamin (173 mg, 1.3 mmol) 7 mL'lik bir cam viyaldeki NMP (2.4 mL) içinde çözündürülmüştür. Karışım 2 saat boyunca 100°C'de karıştırılmıştır sonra soğutulmuş ve vakumda konsantre edilmiştir. Prep HPLC (su, metanol içinde Sabit faz: RP Vydac Denali C18 - 10 µm, 200 g, 5 cm), Mobil faz: %0.25 NH_4OAc) ile saflaştırılmış, istenen kesitler toplanmış ve vakum altında konsantre edilmiştir. Ürün asetonitril içinde toz haline getirilmiş, filtrasyon ile ayrılmış ve bir beyaz katı madde olarak **155**'i elde etmek üzere vakum altında kurutulmuştur.

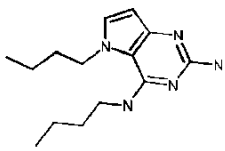
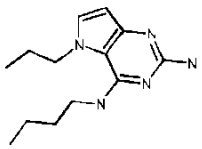
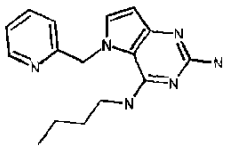
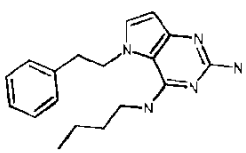
Tablo 1. Formülün (I) bileşikleri ve ilgili analitik veriler.

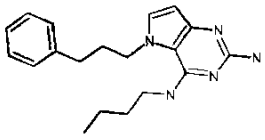
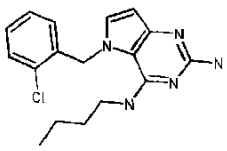
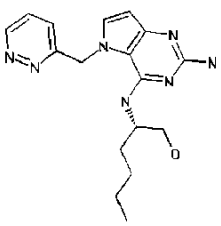
Bileşikler deneysel bölümde açıklanan yöntemlere göre hazırlanmıştır. *R, R konfigürasyonunda çizilen, bilinmeyen bir konfigürasyonun saf bir enantiyomerini belirtir. *S, S konfigürasyonunda çizilen, bilinmeyen bir konfigürasyonun saf bir enantiyomerini belirtir.

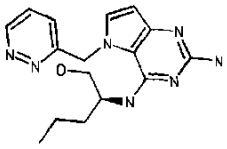
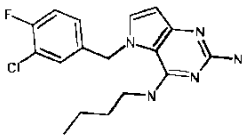
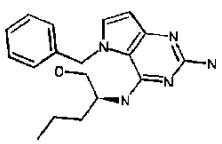
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
1		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.77 (t, J=7.3 Hz, 3 H), 0.98 - 1.11 (m, 2 H), 1.33 (dt, J=14.5, 7.2 Hz, 2 H), 3.25 - 3.30 (m, 2 H), 5.23 (s, 2 H), 5.48 (s, 6 2 H), 5.75 (t, J=5.5 Hz, 1 H), 5.98 (d, J=3.0 Hz, 1 H), 6.97 (d,	B, 0.88	296

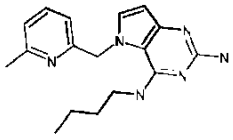
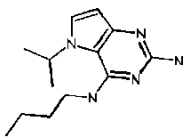
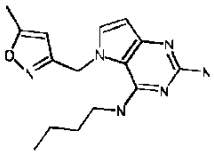
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=7.0 Hz, 2 H), 7.19 - 7.35 (m, 4 H)		
2		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.76 (t, *J*=7.2 Hz, 3 H), 1.07 (dq, *J*=14.9, 7.3 Hz, 2 H), 1.23 - 1.35 (m, 2 H), 3.31 (td, *J*=6.8, 5.6 Hz, 2 H), 4.90 (t, *J*=4.9 Hz, 1 H), 5.12 (br. s., 2 H), 5.31 (s, 2 H), 6.21 (d, *J*=3.0 Hz, 1 H), 6.71 - 6.79 (m, 1 H), 6.86 - 6.94 (m, 3 H), 6.97 - 7.05 (m, 2 H), 7.06 - 7.14 (m, 1 H), 7.20 - 7.27 (m, 1 H), 7.27 - 7.36 (m, 2 H)	A, 2.82	388
3		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.75 (t, J=7.3 Hz, 3 H), 0.96 - 1.09 (m, 2 H), 1.28 - 1.41 (m, 2 H), 3.25 - 3.33 (m, 2 H), 5.55 (s, 4 H), 5.85 (dd, J=9.7, 2.6 Hz, H), 5.98 (t, J=5.0 Hz, 1 H), 6.08 (d, J=3.0 Hz, 1 H), 7.11 (td, J=8.5, 3.1 Hz, 1 H), 7.30 (d, J=3.0 Hz, 1 H), 7.70 (dd, J=8.8, 5.3 Hz, 1 H)	A, 2.49	393
4		^{1}H NMR (300 MHz, CHLOROFORM-*d) δ ppm* 0.91 (t, J=7.2 Hz, 3 H), 1.30 - 1.44 (m, 2 H), 1.49 - 1.61 (m, 2 H), 3.34 (s, 3 H), 3.43 (td, J=7.1, 5.3 Hz, 2 H), 3.69 - 3.77 (m, 2 H), 4.20 - 4.29 (m, 2 H), 5.73 (br. s., 1 H), 6.20 (d, J=3.0 Hz, 1 H), 6.86 (d, J=3.2 Hz, 1 H), 7.11 (br. s., 1 H)	A, 1.95	264

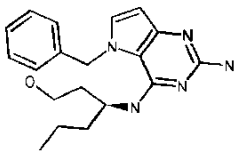
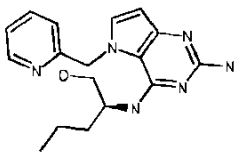
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
5		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.74 (t, *J*=7.2 Hz, 3 H), 0.90 - 1.07 (m, 2 H), 1.11 - 1.17 (m, 2 H), 3.18 - 3.28 (m, 2 H), 4.40 (br. s., 1 H), 4.94 (br. s., 2 H), 5.30 (s, 2 H), 6.23 (d, *J*=3.0 Hz, 1 H), 6.70 (d, *J*=8.8 Hz, 1 H), 6.79 (d, *J*=7.7 Hz, 1 H), 6.94 - 7.03 (m, 2 H), 7.30 (td, *J*=8.0, 5.8 Hz, 1 H)	A, 2.29	314
6		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.72 (t, *J*=7.2 Hz, 3 H), 0.88 - 1.03 (m, 2 H), 1.14 - 1.27 (m, 2 H), 3.24 (td, *J*=6.7, 5.3 Hz, 2 H), 4.29 (br. s., 1 H), 4.89 (br. s., 2 H), 5.33 (s, 2 H), 6.24 (d, *J*=3.0 Hz, 1 H), 6.46 - 6.53 (m, 1 H), 6.99 (d, *J*=3.0 Hz, 1 H), 7.10 - 7.22 (m, 2 H), 7.55 - 7.60 (m, 1 H)	A, 2.47	375
7		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.74 (t, *J*=7.2 Hz, 3 H), 0.86 - 1.01 (m, 2 H), 1.06 - 1.18 (m, 2 H), 3.12 - 3.22 (m, 2 H), 4.31 (t, *J*=5.0 Hz, 1 H), 5.18 (br. s., 2 H), 5.19 - 5.24 (m, 2 H), 6.20 (d, *J*=3.0 Hz, 1 H), 6.71 (d, *J*=7.7 Hz, 1 H), 6.96 (d, *J*=3.0 Hz, 1 H), 7.21 - 7.47 (m, 8 H)	A, 2.78	372
8		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.84 (t, J=7.4 Hz, 3 H), 0.93 (t, J=7.3 Hz, 3 H), 1.06 - 1.27 (m, 2 H), 1.27 -	A, 2.28	262

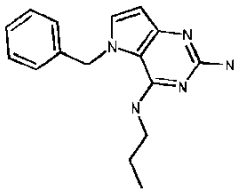
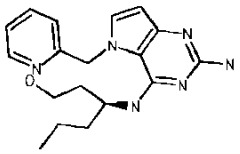
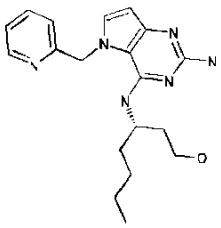
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		1.44 (m, 2 H), 1.50 - 1.66 (m, 4 H), 3.44 - 3.54 (m, 2 H), 4.28 (t, J=6.9 Hz, 2 H), 5.99 (d, J=2.9 Hz, 1 H), 6.17 (br. s., 2 H), 6.79 (br. s., 1 H), 7.28 (d, J=2.9 Hz, 1 H)		
9		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.86 (t, J=7.4 Hz, 3 H), 0.91 (t, J=7.3 Hz, 3 H), 1.36 (dq, J=15.0, 7.4 Hz, 2 H), 1.52 - 1.65 (m, 2 H), 1.76 (sxt, J=7.3 Hz, 2 H), 3.52 (td, J=7.1, 5.6 Hz, 2 H), 4.07 (t, J=7.1 Hz, 2 H), 5.17 - 5.30 (m, 1 H), 5.52 (br. s., 2 H), 6.09 (d, J=3.0 Hz, 1 H), 6.88 (d, J=3.0 Hz, 1 H)	A, 2.06	248
10		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.92 (t, J=7.3 Hz, 3 H), 1.38 (dq, J=15.0, 7.3 Hz, 2 H), 1.56 - 1.68 (m, 2 H), 3.49 (td, J=7.1, 5.1 Hz, 2 H), 5.28 (s, 2 H), 5.78 (br. s., 2 H), 6.18 (d, J=3.0 Hz, 1 H), 7.06 (d, J=3.0 Hz, 1 H), 7.25 - 7.32 (m, 1 H), 7.34 (d, J=7.7 Hz, 1 H), 7.74 (td, J=7.7, 1.7 Hz, 1 H), 8.48 (d, J=4.4 Hz, 1 H), 8.58 (br. s., 1 H)	A, 2.14	297
11		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.94 (t, J=7.4 Hz, 3 H), 1.39 (dq, J=14.9, 7.4 Hz, 2 H), 1.63 (quin, J=7.3 Hz, 2 H), 2.90 (t, J=7.1 Hz, 2 H), 3.46 - 3.55 (m, 2 H), 4.55 (t,	A, 2.42	310

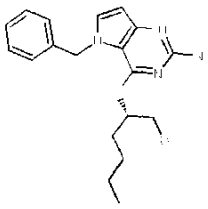
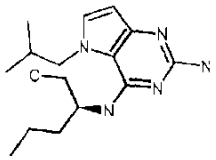
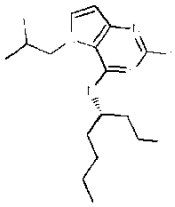
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=7.1 Hz, 2 H), 5.94 (d, J=3.0 Hz, 1 H), 6.33 (br. s., 2 H), 6.97 (br. s., 1 H), 7.02 - 7.12 (m, 3 H), 7.16 - 7.29 (m, 3 H)		
12		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.90 (t, J=7.3 Hz, 3 H), 1.34 (dq, J=14.9, 7.3 Hz, 2 H), 1.57 (quin, J=7.3 Hz, 2 H), 1.91 (quin, J=7.5 Hz, 2 H), 2.41 - 2.48 (m, 2 H), 3.41 - 3.49 (m, 2 H), 4.29 (t, J=7.0 Hz, 2 H), 5.57 (s, 2 H), 5.94 (d, J=2.9 Hz, 1 H), 6.32 (t, J=5.4 Hz, 1 H), 7.10 - 7.22 (m, 4 H), 7.22-7.31 (m, 2 H)	A, 2.6	324
13		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.81 (t, J=7.2 Hz, 3 H), 1.06 (dq, J=14.9, 7.3 Hz, 2 H), 1.22 - 1.35 (m, 2 H), 3.32 (td, J=6.7, 5.4 Hz, 2 H), 4.20 (br. s., 1 H), 4.51 (br. s., 2 H), 5.44 (s, 2 H), 6.31 (d, J=3.2 Hz, 1 H), 6.63 (d, J=7.4 Hz, 1 H), 7.07 (d, J=3.0 Hz, 1 H), 7.16 - 7.25 (m, 1 H), 7.29 - 7.34 (m, 1 H), 7.47 (dd, J=8.0, 1.2 Hz, 1 H)	A, 2.47	330
14		^{1}H NMR (400 MHz, CHLOROFORM-*d*) ppm 0.89 (t, J=6.9 Hz, 3 H), 1.20 - 1.27 (m, 1 H), 1.28 - 1.41 (m, 4 H), 1.64 (q, J=7.0 Hz, 2 H), 3.61 (dd, J=11.2, 6.9 Hz, 1 H), 3.77 (dd, J=11.0, 2.8 Hz, 1 H), 4.24 (td, J=6.9,	B, 0.63	342

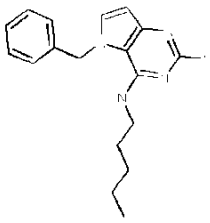
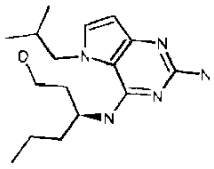
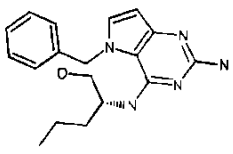
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		2.8 Hz, 1 H), 4.57 (br. s., 2 H), 5.48 - 5.68 (m, 2 H), 6.21 (d, J=3.0 Hz, 1 H), 6.74 (d, J=6.8 Hz, 1 H), 7.10 (d, J=3.0 Hz, 1 H), 7.35 (dd, J=8.5, 1.3 Hz, 1 H), 7.51 (dd, J=8.4, 4.9 Hz, 1 H), 9.16 (dd, J=5.0, 1.3 Hz, 1 H)		
15		^{1}H NMR (400 MHz, METANOL-d_4) δ ppm 0.88 (t, J=7.3 Hz, 3 H), 1.13-1.32 (m, 3 H), 1.46 - 1.69 (m, 3 H), 2.39 (t, J=6.8 Hz, 1 H), 3.61 (d, J=5.5 Hz, 2 4 H), 4.31 (dd, J=8.8, 5.0 Hz, 1 H), 5.62 - 5.87 (m, 2 H), 6.13 (d, J=3.0 Hz, 1 H), 7.39 (d, J=3.0 Hz, 1 H), 7.46 (dd, J=8.5, 1.8 Hz, 1 H), 7.70 (dd, J=8.5, 5.0 Hz, 1 H), 9.14 (dd, J=4.9, 1.6 Hz, 1 H)	B, 0.55	328
16		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.77 (t, J=7.2 Hz, 3 H), 1.02 (dq, J=14.9, 7.3 Hz, 2 H), 1.15 -1.29 (m, 2 H), 3.25 (td, J=6.8, 5.4 Hz, 2 H), 4.08 - 4.22 (m, 1 H), 4.42 (br. s., 2 H), 5.23 (s, 2 H), 6.20 (d, J=3.0 Hz, 1 H), 6.83 (ddd, J=8.5, 4.3, 2.2 Hz, 1 H), 6.95 (d, J=3.0 Hz, 1 H), 7.04 - 7.12 (m, 2 H)	A, 2.5	348
17		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.69 (t, J=7.3 Hz, 3 H), 0.80 - 0.93 (m, 2 H), 1.05 - 1.17 (m, 1 H), 1.34 - 1.45 (m, 1 H), 3.24 (br. s., 2 H), 4.06	B, 0.79	326

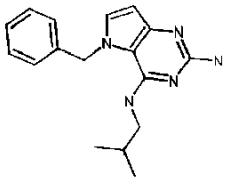
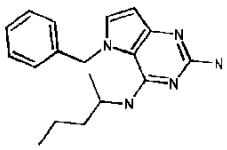
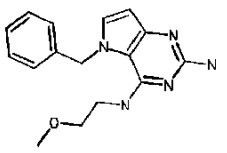
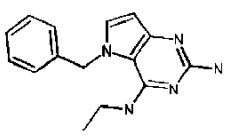
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		- 4.16 6 (m, 1 H), 4.63 (br. s., 1 H), 5.03 (d, J=8.6 Hz, 1 H), 5.24 (s, 2 H), 5.40 - 5.57 (m, 2 H), 5.99 (d, J=3.1 Hz, 1 H), 6.98 (d, J=7.0 Hz, 2 H), 7.22 - 7.35 (m, 3 H), 7.36 (d, J=2.9 Hz, 1 H)		
18		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.89 (t, J=7.4 Hz, 3 H), 1.18 - 1.39 (m, 2 H), 1.45 - 1.63 (m, 2 H), 2.50 (s, 3 H), 3.36 - 3.46 (m, 2 H), 5.33 (s, 2 H), 5.41 (s, 2 H), 5.96 (d, J=2.9 Hz, 1 H), 7.03 (d, J=7.6 Hz, 1 H), 7.23 (d, J=7.7 Hz, 1 H), 7.28 (t, J=5.2 Hz, 1 H), 7.40 (d, J=3.0 Hz, 1 H), 7.71 (t, J=7.7 Hz, 1 H)	A, 1.68	311
19		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.99 (t, J=7.4 Hz, 3 H), 1.26 - 1.43 (m, 2 H), 1.45 (d, J=6.3 Hz, 6 H), 1.67 (quin, J=7.3 Hz, 2 H), 3.54 - 3.63 (m, 2 H), 4.95 (dt, J=12.9, 6.4 Hz, 1 H), 6.18 (d, J=3.2 Hz, 1 H), 6.73 (br. s., 2 H), 7.29 (br. s., 1 H), 7.57 (d, J=3.2 Hz, 1 H)	A, 1.51	248
20		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.89 (t, J=7.3 Hz, 3 H), 1.27 (dq, J=14.9, 7.4 Hz, 2 H), 1.51 (quin, J=7.2 Hz, 2 H), 2.32 (s, 3 H), 3.26 - 3.44 (m, 2 H), 5.33 (s, 2 H), 5.51 (s, 2 H), 5.83 - 5.87 (m, 1 H), 5.97 (d,	A, 1.45	301

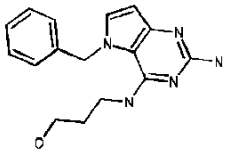
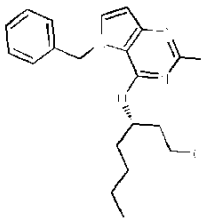
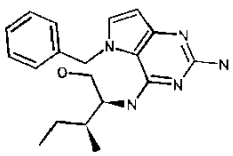
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=3.0 Hz, 1 H), 6.11 (t, J=5.3 Hz, 1 H), 7.29 (d, J=3.0 Hz, 1 H)		
21		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.70 (t, J=7.3 Hz, 3 H), 0.82 - 0.98 (m, 2 H), 1.17 - 1.36 (m, 2 H), 1.37 - 1.48 (m, 1 H), 1.51 - 1.63 (m, 1 H), 3.21 - 6 3.31 (m, 2 H), 4.17 - 4.29 (m, 1 H), 4.49 (br. s., 1 H), 5.24 (d, J=8.5 Hz, 1 H), 5.30 (s, 2 H), 5.41 - 5.58 (m, 2 H), 6.00 (d, J=3.0 Hz, 1 H), 6.95 (s, 1 H), 6.96 (s, 1 H), 7.20 - 7.27 (m, 1 H), 7.27 - 7.34 (m, 2 H), 7.36 (d, J=3.0 Hz, 1 H)	B, 0.83	340
22		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.87 (t, *J*=7.3 Hz, 3 H), 1.15 - 1.32 (m, 2 H), 1.45 - 1.59 (m, 1 H), 1.64 (td, *J*=8.0, 5.0 Hz, 1 H), 3.50 - 3.54 (m, 2 H), 3.72 - 3.79 (m, 1 H), 4.35 (td, *J*=8.5, 4.8 Hz, 1 H), 5.45 - 5.64 (m, 2 H), 6.14 (d, *J*=3.0 Hz, 1 H), 6.77 (br. s., 2 H), 7.43 (ddd, *J*=7.7, 4.9, 1.0 Hz, 1 H), 7.51 (d, *J*=7.8 Hz, 1 H), 7.63 (d, *J*=3.0 Hz, 1 H), 7.91 (td, *J*=7.7, 1.8 Hz, 1 H), 8.42 (d, *J*=7.8 Hz, 1 H), 8.50 - 8.58 (m, 1 H)	B, 0.69	327
23		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.67 (t, *J*=7.4 Hz, 3 H), 1.25 (sxt, *J*=7.3 Hz, 2 H), 3.24 (td, *J*=7.0, 5.4 Hz, 2 H), 4.65 (br. s., 1 H), 5.16	A, 2.15	282

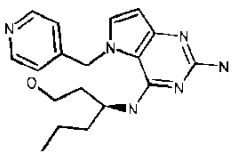
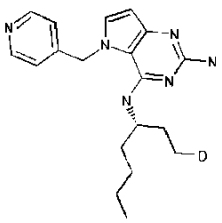
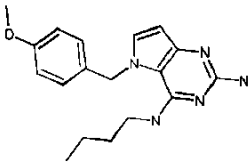
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		(br. s., 2 H), 5.39 (s, 2 H), 6.30 (d, *J*=3.0 Hz, 1 H), 7.03 - 7.13 (m, 3 H), 7.32-7.47 (m, 3 H)		
24		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.82 (t, J=7.40 Hz, 3 H) 1.13 - 1.24 (m, 2 H) 1.43 - 1.54 (m, 2 H) 1.55 - 1.76 (m, 2 H) 3.38 - 3.46 (m, 2 H) 4.28 - 4.37 (m, 1 H) 4.47 (br. s., 1 H) 5.35 (s, 2 H) 5.43 - 5.51 (m, 2 H) 5.97 (d, J=3.01 Hz, 1 H) 6.88 (d, J=8.28 Hz, 1 H) 7.26 (d, J=7.78 Hz, 1 H) 7.37 (ddd, J=7.53, 5.02, 1.00 Hz, 1 H) 7.43 (d, J=3.01 Hz, 1 H) 7.84 (td, J=7.65, 1.76 Hz, 1 H) 8.53 (dt, J=4.00, 0.80 Hz, 1 H)	B, 0.71	341
25		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.74 - 0.85 (m, 3 H) 1.09 - 1.18 (m, 2 H) 1.18 - 1.30 (m, 2 H) 1.40 - 1.56 (m, 2 H) 1.56 - 1.65 (m, 1 H) 1.65 - 1.76 (m, 1 H) 3.34 - 3.45 (m, 2 H) 4.24 - 4.34 (m, 1 H) 4.47 (br. s., 1 H) 5.22 (s,2 H) 5.39 - 5.53 (m, 2 H) 5.96 (d, J=2.76 Hz, 1 H) 6.75 (d, J=8.28 Hz, 1 H) 7.23 (d, J=7.78 Hz, 1 H) 7.37 (ddd, J=7.53, 4.89, 1.13 Hz, 1 H) 7.41 (d, J=3.01 Hz, 1 H) 7.83 (td, J=7.72, 1.88 Hz, 1 H) 8.50 - 8.55 (m, 1 H)	B, 0.8	355

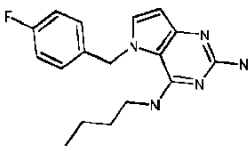
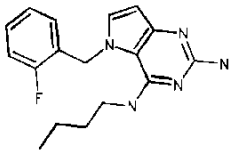
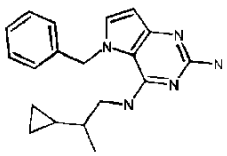
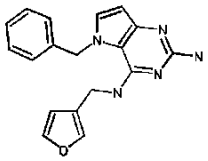
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
26		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.73 (t, J=7.4 Hz, 3 H), 0.77 - 0.93 (m, 2 H), 1.01 - 1.19 (m, 3 H), 1.38-1.51 (m, 1 H), 3.23 - 3.30 (m, 2 H), 4.04 - 6 4.17 (m, 1 H), 4.66 (br. s., 1 H), 5.12 (d, J=8.5 Hz, 1 H), 5.35 (s, 2 H), 5.40 - 5.60 (m, 2 H), 6.01 (d, J=3.0 Hz, 1 H), 6.95 - 7.03 (m, 2 H), 7.22 - 7.35 (m, 3 H), 7.38 (d, J=3.0 Hz, 1 H)	B, 0.86	340
27		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.74 (d, J=6.52 Hz, 3 H) 0.82 (d, J=6.78 Hz, 3 H) 0.92 (t, J=7.28 Hz, 3 H) 1.30 - 1.46 (m, 2 H) 1.50 - 1.69 (m, 2 H) 1.87 - 2.01 (m, 1 H) 3.43 - 3.58 (m, 2 H) 3.88 (dd, J=14.68, 8.16 Hz, 1 H) 4.12 (dd, J=14.56, 6.53 Hz, 1 H) 4.28 (m, J=8.40, 3.90 Hz, 1 H) 4.79 (br. s., 1 H) 5.22 (s, 2 H) 5.41 (d, J=8.53 Hz, 1 H) 5.89 (d, J=3.01 Hz, 1 H) 7.15 (d, J=3.01 Hz, 1 H)	B, 0.76	292
28		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.69 (d, J=6.9 Hz, 3 H), 0.79 (d, J=6.9 Hz, 3 H), 0.82 - 0.91 (m, 3 H), 1.20 - 1.39 (m, 4 H), 1.49 - 1.65 (m, 2 H), 1.66 - 6 1.79 (m, 2 H), 1.83 - 1.97 (m, 1 H), 3.43 - 3.58 (m, 2 H), 3.86 (dd, J=14.5, 8.5 Hz, 1 H), 4.12 (dd, J=14.5, 6.5 Hz, 1 H), 4.27 - 4.44 (m, 1 H), 4.71 (br. s., 1 H), 5.21 (s, 2 H),	B, 0.89	320

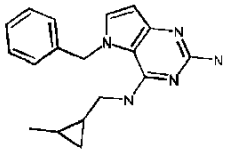
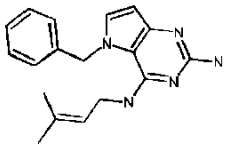
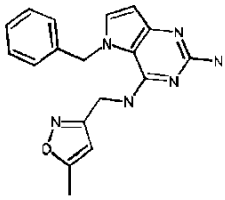
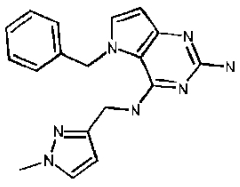
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		5.75 (d, J=8.5 Hz, 1 H), 5.87 (d, J=2.8 Hz, 1 H), 7.12 (d, J=3.2 Hz, 1 H)		
29		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.75 - 0.85 (m, 3 H), 1.02 (d, *J*=7.0 Hz, 2 H), 1.11 - 1.26 (m, 2 H), 1.34 (d, *J*=7.6 Hz, 2 H), 3.28 (s, 2 H), 5.22 (s, 2 H), 5.49 (s, 2 H), 5.76 (s, 1 H), 5.98 (d, *J*=3.0 Hz, 1 H), 6.97 (d, *J*=6.7 Hz, 2 H), 7.17 - 7.35 (m, 4 H)	A, 2.47	310
30		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.76 (dd, J=11.42, 6.65 Hz, 6 H) 0.90 (t, J=7.28 Hz, 3 H) 1.26 - 1.37 (m, 2 H) 1.53 - 1.63 (m, 1 H) 1.63 - 1.73 (m, 1 H) 1.74 - 1.90 (m, 3 H) 3.49-3.62 (m, 2 H) 4.11 - 4.22 (m, 2 H) 4.55 (m, J=6.50 Hz, 1 H) 4.79 (t, J=4.52 Hz, 1 H) 6.16 (d, J=3.01 Hz, 1 H) 7.24 (d, J=8.28 Hz, 1 H) 7.33 (br. s., 2 H) 7.44 (d, J=2.76 Hz, 1 H) 12.35 (br. s., 1 H)	B, 0.82	306
31		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.64 - 0.75 (m, 3 H), 0.77 - 0.97 (m, 2 H), 1.02 - 1.21 (m, 1 H), 1.30 - 1.50 (m, 1 H), 3.33 (d, *J*=4.3 Hz, 2 H), 4.15 (dd, *J*=9.2, 4.5 Hz, 1 H), 4.69 (br. s., 1 H), 5.34 (d, *J*=8.5 Hz, 1 H), 5.42 - 5.64 (m, 2 H), 5.71 (br. s., 2 H), 6.06 (d, *J*=3.0 Hz, 1 H), 6.99 (d,	A, 2.07	326

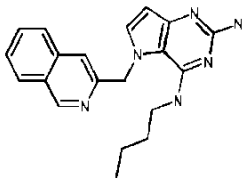
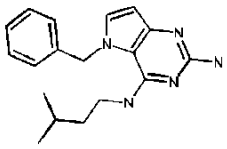
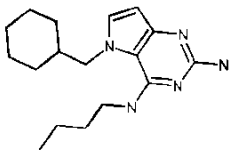
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=6.6 Hz, 2 H), 7.17 - 7.37 (m, 3 H), 7.44 (d, *J*=3.0 Hz, 1 H)		
32		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.57 (d, *J*=6.6 Hz, 6 H), 1.19 (s, 2 H), 1.33 - 1.52 (m, 1 H), 3.05 (dd, *J*=6.8, 5.6 Hz, 2 H), 4.61 - 4.78 (m, 1 H), 5.32 (s, 2 H), 6.25 (d, *J*=3.0 Hz, 1 H), 6.97 - 7.06 (m, 3 H), 7.26 - 7.39 (m, 3 H)	A, 2.25	296
33		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.74 - 0.82 (m, 3 H), 0.86 (d, *J*=6.5 Hz, 3 H), 0.93 - 1.28 (m, 4 H), 4.01 - 4.22 (m, 1 H), 4.39 (d, *J*=7.8 Hz, 1 H), 5.05 (br. s., 2 H), 5.37 (s, 2 H), 6.29 (d, *J*=3.0 Hz, 1 H), 7.02 - 7.13 (m, 3 H), 7.32 - 7.47 (m, 3 H)	A, 2.4	310
34		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 3.24 (s, 3 H), 3.35 - 3.44 (m, 2 H), 3.57 (q, *J*=5.6 Hz, 2 H), 5.55 (s, 2 H), 5.97 (br. s., 2 H), 6.09 (d, *J*=2.9 Hz, 1 H), 6.30 (br. s., 1 H), 7.05 - 7.14 (m, 2 H), 7.25 - 7.41 (m, 3 H), 7.46 (d, *J*=3.0 Hz, 1 H)	A, 1.81	298
35		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.98 (t, *J*=7.1 Hz, 3 H), 3.23 - 3.44 (m, 2 H), 5.43 (s, 2 H), 5.49 (s, 2 H), 5.96 - 6.07 (m, 2 H), 7.02 (d, *J*=6.7 Hz, 2 H), 7.17 - 7.38 (m, 4 H)	A, 1.96	268

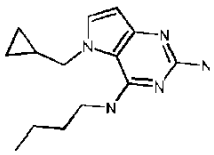
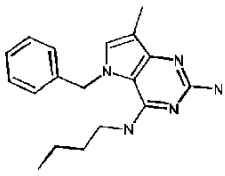
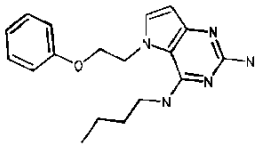
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
36		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 1.56 (quin, *J*=6.4 Hz, 2 H), 3.24 - 3.44 (m, 4 H), 4.45 - 4.58 (m, 1 H), 5.49 (s, 2 H), 5.61 (br. s., 2 H), 6.03 (d, *J*=2.9 Hz, 1 H), 6.19 (t, *J*=5.0 Hz, 1 H), 6.96 - 7.04 (m, 2 H), 7.19 - 7.34 (m, 3 H), 7.37 (d, *J*=3.0 Hz, 1 H)	A, 1.61	298
37		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.74 (t, J=7.3 Hz, 3 H), 0.80-0.95 (m, 2 H), 1.02 - 1.17 (m, 2 H), 1.19-1.48 (m, 3 H), 1.51 - 1.64 (m, 1 H), 3.21 - 6 3.27 (m, 2 H), 4.20 (tt, J=8.5, 4.0 Hz, 1 H), 4.49 (br. s., 1 H), 5.18-5.32 (m, 3 H), 5.40 - 5.59 (m, 2 H), 6.00 (d, J=3.1 Hz, 1 H), 6.96 (d, J=7.3 Hz, 2 H), 7.19 - 7.39 (m, 4 H)	B, 0.92	354
38		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.62 (d, J=4.0 Hz, 3 H), 0.65 (d, J=6.8 Hz, 3 H), 0.95 - 1.04 (m, 1 H), 1.35 - 1.47 (m, 1 H), 1.89 (s, 3 H), 3.35 - 3.46 6 (m, 2 H), 3.98 - 4.07 (m, 1 H), 5.06 (d, J=8.8 Hz, 1 H), 5.42 - 5.60 (m, 4 H), 6.01 (d, J=2.9 Hz, 1H), 6.94 - 6.98 (m, 2 H), 7.23 - 7.28 (m, 1 H), 7.29 - 7.35 (m, 2 H), 7.38 (d, J=3.1 Hz, 1 H)	B, 0.84	340
39		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.63 - 0.73 (m, 3 H), 0.75 - 0.95 (m, 2 H), 1.18 - 1.36 (m, 2 H), 1.48 (dd,	B, 0.57	341

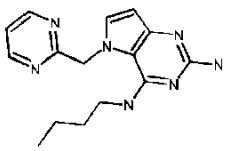
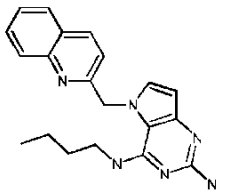
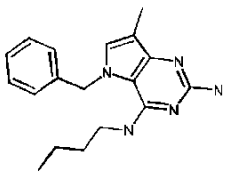
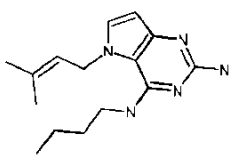
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=8.9, 4.7 Hz, 1 H), 1.53 - 1.64 (m, 1 H), 3.20 6 - 3.28 (m, 2 H), 4.13 - 4.29 (m, 1 H), 4.50 (t, J=5.4 Hz, 1 H), 5.28 (s, 2 H), 5.37 (d, J=8.6 Hz, 1 H), 5.47 - 5.69 (m, 2 H), 6.04 (d, J=3.1 Hz, 1H), 6.81 (d, J=5.9 Hz, 2 H), 7.36 (d, J=2.9 Hz, 1 H), 8.40 - 8.50 (m, 2 H)		
40		^{1}H NMR (400 MHz, CHLOROFORM-*d*) δ ppm 0.76 - 0.82 (m, 3 H), 0.87 - 1.00 (m, 2 H), 1.02 - 1.22 (m, 5 H), 1.28 - 1.41 (m, 1 H), 1.72 - 1.85 (m, 1 H), 3.34 (td, J=11.6, 2.4 Hz, 1 H), 3.44 - 3.55 (m, 1 H), 4.12 - 4.27 (m, 2 H), 4.58 (br. s., 2 H), 5.26 - 5.45 (m, 2 H), 6.27 (d, J=3.1 Hz, 1 H), 6.89 - 6.97 (m, 2 H), 7.06 (d, J=3.1 Hz, 1 H), 8.55 - 8.62 (m, 2 H)	B, 0.64	355
41		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.65 - 0.80 (m, 3 H) 0.89 - 1.07 (m, 2 H) 1.11 - 1.22 (m, 2 H) 3.14 - 3.28 (m, 2 H) 3.73 (s, 3 H) 4.76 (br. s., 1 H) 5.08 - 5.24 (m, 2 H) 5.27 (s, 2 H) 6.18 (d, *J*=3.02 Hz, 1 H) 6.84 (d, *J*=8.66 Hz, 2 H) 6.94 (d, *J*=8.66 Hz, 2 H) 7.00 (d, *J*=3.02 Hz, 1 H)	A, 2.26	326
42		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.70 - 0.87 (m, 3 H) 0.97 - 1.14 (m, 2 H) 1.31 - 1.46 (m, 2 H) 3.36 - 3.40	A, 2.23	314

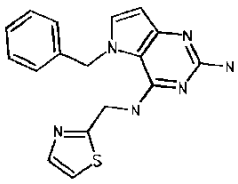
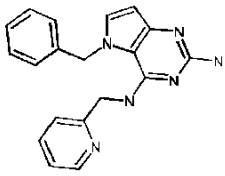
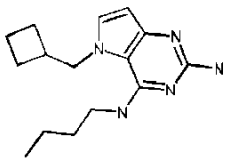
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		(m, 2 H) 5.52 (s, 2 H) 5.62 (s, 2 H) 6.05 (d, *J*=3.02 Hz, 1 H) 6.11 (s, 1 H) 6.90 - 7.09 (m, 2 H) 7.09 - 7.24 (m, 2 H) 7.39 (d, *J*=3.02 Hz, 1 H)		
43		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.67 - 0.85 (m, 3 H) 0.94 - 1.13 (m, 2 H) 1.16 - 1.33 (m, 2 H) 3.16 - 3.43 (m, 2 H) 4.33 (br. s., 1 H) 4.54 (br. s., 2 H) 5.32 (s, 2 H) 6.21 (d, *J*=3.02 Hz, 1 H) 6.67 (t, *J*=7.35 Hz, 1 H) 6.99 (d, *J*=3.02 Hz, 1 H) 7.00 - 7.13 (m, 2 H) 7.22 - 7.32 (m, 1 H)	A, 2.27	314
44		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm -0.07 - 0.07 (m, 2 H) 0.21 - 0.43 (m, 3 H) 0.66 - 0.75 (m, 3 H) 0.76 - 0.95 (m, 1 H) 3.22 - 3.51 (m, 2 H) 4.86 (br. s., 1 H) 5.15 (br. s., 2 H) 5.41 (s, 2 H) 6.33 (d, *J*=3.02 Hz, 1 H) 7.07 (br. s., 1 H) 7.10 (s, 2 H) 7.35 - 7.47 (m, 3 H)	A, 2.46	322
45		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 4.21 (d, *J*=4.95 Hz, 2 H) 4.48 (br. s., 1 H) 4.70 (br. s., 2 H) 5.18 - 5.30 (m, 2 H) 5.97 (s, 1 H) 6.22 (d, *J*=3.02 Hz, 1 H) 6.90 (dd, *J*=6.53, 2.13 Hz, 2 H) 6.98 (s, 1 H) 7.02 (d, *J*=3.02 Hz, 1 H) 7.20 - 7.29 (m, 4 H)	A, 2.09	320

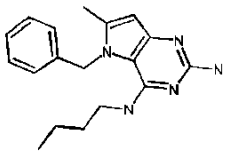
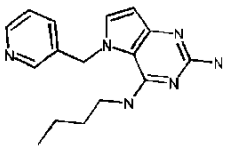
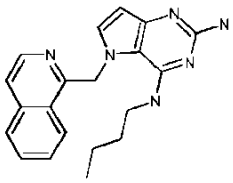
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
46		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm -0.12 - 0.09 (m, 2 H) 0.24 - 0.46 (m, 2 H) 0.89 (d, *J*=5.64 Hz, 3 H) 2.84 - 3.06 (m, 1 H) 3.08 - 3.25 (m, 1 H) 4.51 (br. s., 1 H) 4.63 (br. s., 2 H) 5.34 (s, 2 H) 6.23 (d, *J*=3.02 Hz, 1 H) 7.03 (d, *J*=2.75 Hz, 2 H) 7.06 (br. s., 1 H) 7.27 - 7.40 (m, 3 H)	A, 2.26	308
47		^{1}H NMR (300 MHz, CHLOROFORM-d) δ ppm 1.42 (s, 3 H) 1.58 (s, 3 H) 3.66 - 3.80 (m, 2 H) 4.42 (br. s., 1 H) 4.71 - 4.88 (m, 1 H) 5.02 (br. s., 2 H) 5.28 (s, 2 H) 6.21 (d, *J*=3.02 Hz, 1 H) 6.96 - 7.01 (m, 2 H) 7.02 (s, 1 H) 7.24 - 7.41 (m, 3 H)	A, 2.32	308
48		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 2.28 (s, 3 H) 4.46 (d, *J*=5.22 Hz, 2 H) 4.65 (br. s., 2 H) 4.92 (br. s., 1 H) 5.30 (s, 2 H) 5.54 (s, 1 H) 6.22 (d, *J*=3.02 Hz, 1 H) 6.89 - 7.01 (m, 2 H) 7.03 (d, *J*=3.16 Hz, 1 H) 7.21 - 7.27 (m, 3 H)	A, 1.97	335
49		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 3.79 (s, 3 H) 4.44 (d, *J*=4.67 Hz, 2 H) 5.33 (s, 2 H) 5.60 (br. s., 1 H) 5.84 (d, *J*=2.06 Hz, 1 H) 6.28 (d, *J*=3.02 Hz, 1 H) 6.43 (br. s., 2 H) 6.96 (dd, *J*=6.53, 2.82 Hz, 2 H) 7.02 (d, *J*=3.02 Hz, 1 H) 7.18 (d,	A, 1.83	334

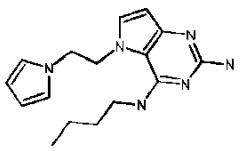
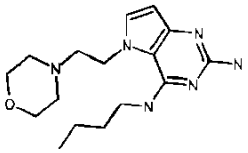
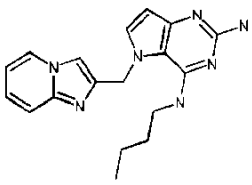
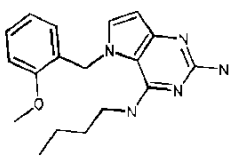
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=2.20 Hz, 1 H) 7.21 - 7.28 (m, 3 H)		
50		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.83 - 0.91 (m, 3 H) 1.30 - 1.41 (m, 2 H) 1.57 - 1.67 (m, 2 H) 3.44 - 3.60 (m, 2 H) 5.41 (s, 2 H) 6.22 (br. s, 2 H) 6.21 (d, *J*=3.02 Hz, 1 H) 7.05 (d, *J*=3.02 Hz, 1 H) 7.55 - 7.65 (m, 2 H) 7.70 (t, *J*=7.49 Hz, 1 H) 7.76 - 7.86 (m, 1 H) 7.95 (d, *J*=8.11 Hz, 1 H) 8.23 (br. s., 1 H) 9.12 (s, 1 H)	A, 2.52	347
51		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.71 (d, *J*=6.32 Hz, 6 H) 0.74 - 0.86 (m, 1 H) 0.93 - 1.05 (m, 2 H) 3.15 - 3.28 (m, 2 H) 4.59 (br. s., 1 H) 5.29 (s, 2 H) 6.18 (br. s., 2 H) 6.27 (d, *J*=3.02 Hz, 1 H) 6.97 - 7.01 (m, 2 H) 7.02 (br. s., 1 H) 7.26 - 7.42 (m, 3 H)	A, 2.45	310
52		^{1}H NMR (300 MHz, CHLOROFORM-d) δ ppm 0.89 - 0.95 (m, 1 H) 0.92 (t, *J*=7.35 Hz, 3 H) 1.00 - 1.26 (m, 4 H) 1.31 - 1.44 (m, 2 H) 1.47 - 1.75 (m, 8 H) 3.43 - 3.59 (m, 2 H) 3.83 (d, *J*=7.29 Hz, 2 H) 4.73 (br. s., 1 H) 4.93 (br. s., 2 H) 6.08 (d, *J*=3.02 Hz, 1 H) 6.81 (d, *J*=3.02 Hz, 1 H)	A, 2.68	302

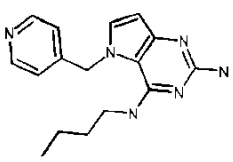
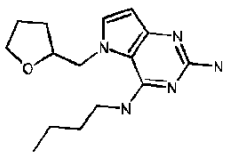
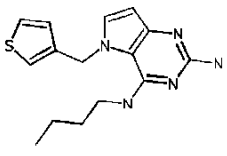
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
53		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.19 - 0.35 (m, 2 H) 0.50-0.65 (m, 2 H) 0.69 - 0.86 (m, 1 H) 0.91 (t, *J*=7.29 Hz, 3 H) 1.33 - 1.45 (m, 2 H) 1.49 - 1.65 (m, 2 H) 3.50 (td, *J*=7.11, 5.57 Hz, 2 H) 4.00 (d, *J*=6.05 Hz, 2 H) 4.68 (br. s., 2 H) 4.80 (br. s., 1 H) 6.10 (d, *J*=3.02 Hz, 1 H) 6.93 (d, *J*=3.02 Hz, 1 H)	A, 2.19	260
54		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.69 - 0.74 (m, 3 H) 0.89 - 0.97 (m, 2 H) 1.07 - 1.13 (m, 2 H) 2.21 (s, 3 H) 3.14 - 3.27 (m, 2 H) 4.66 (br. s., 1 H) 5.24 (s, 2 H) 6.40 (br. s., 2 H) 6.78 - 6.86 (m, 1 H) 6.92 - 7.05 (m, 2 H) 7.26 - 7.41 (m, 3 H)	A, 2.46	310
55		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.96 (t, *J*=7.29 Hz, 3 H) 1.38 - 1.57 (m, 2 H) 1.58 - 1.75 (m, 2 H) 3.54 - 3.64 (m, 2 H) 4.29 - 4.42 (m, 2 H) 4.56 (t, *J*=4.88 Hz, 2 H) 4.59 (br. s., 2 H) 5.96 (br. s., 1 H) 6.26 (d, *J*=3.02 Hz, 1 H) 6.79 - 6.91 (m, 2 H) 6.99 (d, *J*=3.02 Hz, 1 H) 7.00 - 7.08 (m, 1 H) 7.28 - 7.34 (m, 2 H)	A, 2.47	326
56		^{1}H NMR (300 MHz, CHLOROFORM-d) δ ppm 0.93 (t, *J*=7.35 Hz, 3 H) 1.36 - 1.52 (m, 2 H) 1.52 - 1.71 (m, 2	C, 4.68	298

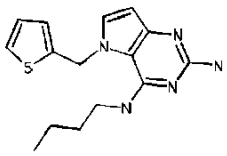
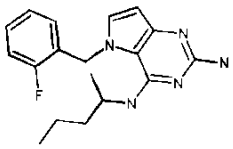
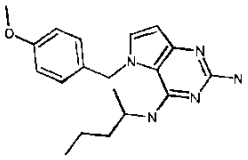
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 3.46 - 3.65 (m, 2 H) 5.35 (s, 2 H) 6.06 (br. s., 2 H) 6.22 (d, *J*=3.02 Hz, 1 H) 7.13 (d, *J*=3.02 Hz, 1 H) 7.31 (t, *J*=5.02 Hz, 1 H) 8.02 (br. s., 1 H) 8.71 (d, *J*=5.09 Hz, 2 H)		
57		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.79 (t, *J*=7.29 Hz, 3 H) 1.22 (dd, *J*=15.19, 7.49 Hz, 2 H) 1.39 - 1.56 (m, 2 H) 3.29 - 3.45 (m, 2 H) 4.63 (br. s., 2 H) 5.44 (s, 2 H) 6.17 (d, *J*=3.02 Hz, 1 H) 7.00 (br. s., 1 H) 7.09 (d, *J*=3.02 Hz, 1 H) 7.18 - 7.28 (m, 1 H) 7.42 - 7.57 (m, 1 H) 7.62 - 7.83 (m, 2 H) 7.97 (d, *J*=8.39 Hz, 1 H) 8.10 (d, *J*=8.39 Hz, 1 H)	A, 2.49	347
58		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.69 - 0.74 (m, 3 H) 0.89 - 0.97 (m, 2 H) 1.07 - 1.13 (m, 2 H) 2.21 (s, 3 H) 3.14 - 3.27 (m, 2 H) 4.66 (br. s., 1 H) 5.24 (s, 2 H) 6.40 (br. s., 2 H) 6.78 - 6.86 (m, 1 H) 6.92 - 7.05 (m, 2 H) 7.26 - 7.41 (m, 3 H)	A, 2.56	310
59		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.89 (t, *J*=7.22 Hz, 3 H) 1.26 - 1.40 (m, 2 H) 1.41 - 1.57 (m, 2 H) 1.70 - 1.77 (m, 6 H) 3.32 - 3.51 (m, 2 H) 4.47 (br. s., 2 H) 4.66 (d, *J*=5.64 Hz, 2 H) 4.98 (br. s., 1 H)	A, 2.37	274

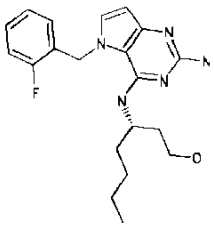
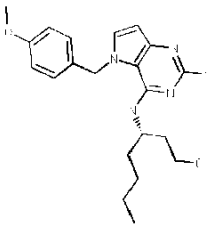
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		5.28 - 5.41 (m, 1 H) 6.06 (d, *J*=3.02 Hz, 1 H) 6.84 (d, *J*=3.02 Hz, 1 H)		
60		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 4.47 (br. s., 2 H) 4.74 (d, J=5.50 Hz, 2 H) 5.15 (t, J=5.16 Hz, 1 H) 5.32 (s, 2 H) 6.22 (d, J=3.02 Hz, 1 H) 6.94 - 7.01 (m, 2 H) 7.03 (d, J=3.02 Hz, 1 H) 7.14 (d, J=3.30 Hz, 1 H) 7.17 - 7.27 (m, 3 H) 7.58 (d, J=3.30 Hz, 1 H)	A, 1.86	337
61		^{1}H NMR (300 MHz, chloroform-*d*) δ ppm 4.38 (d, J=5.36 Hz, 2 H) 4.49 (br. s., 2 H) 4.54 - 4.66 (m, 1 H) 5.26 (s, 2 H) 6.21 (d, J=3.02 Hz, 1 H) 6.84 - 6.92 (m, 2 H) 7.00 - 7.08 (m, 2 H) 7.08 - 7.14 (m, 1 H) 7.14 - 7.23 (m, 3 H) 8.15 - 8.23 (m, 1 H) 8.36 - 8.44 (m, 1 H)	A, 1.28	331
62		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.92 (t, J=7.35 Hz, 3 H) 1.37 (dq, J=14.90, 7.31 Hz, 2 H) 1.52 - 1.63 (m, 2 H) 1.65 - 1.78 (m, 2 H) 1.78 - 1.90 (m, 2 H) 1.91 - 2.05 (m, 2 H) 2.47 - 2.83 (m, 2 H) 3.41 - 3.54 (m, 1 H) 4.05 (d, J=7.01 Hz, 2 H) 4.73 (br. s., 1 H) 4.89 (br. s., 2 H) 6.09 (d, J=3.02 Hz, 1 H) 6.85 (d, J=3.02 Hz, 1 H)	A, 2.33	274
63		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm	B, 0.97	310

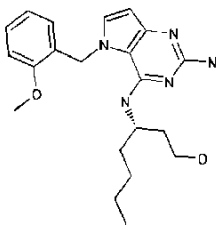
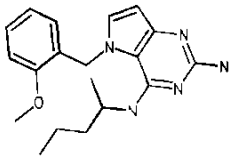
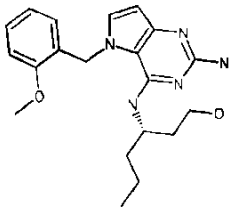
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		0.75 (t, J=7.3 Hz, 3 H), 0.98 - 1.06 (m, 2 H), 1.32 (quin, J=7.2 Hz, 2 H), 2.27 (s, 3 H), 3.24 - 3.28 (m, 2 H), 5.25 (br. s., 6 2 H), 5.44 (s, 2 H), 5.75 (t, J=5.4 Hz, 1 H), 5.87 (s, 1 H), 6.87 (d, J=7.0 Hz, 2 H), 7.19 - 7.25 (m, 1 H), 7.25 - 7.32 (m, 2 H)		
64		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.75 (t, J=7.30 Hz, 3 H) 0.89 - 1.06 (m, 2 H) 1.11 - 1.29 (m, 2 H) 3.24 - 3.34 (m, 2 H) 5.16 (br. s., 1 H) 5.47 (s, 2 H) 5.96 (br. s., 2 H) 6.21 (d, J=3.02 Hz, 1 H) 7.00 (d, J=3.02 Hz, 1 H) 7.18 -7.26 (m, 2 H) 8.33 - 8.42 (m, 1 H) 8.49 - 8.59 (m, 1 H)	C, 4.21	297
65		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.95 (t, J=7.29 Hz, 3 H) 1.30 - 1.54 (m, 2 H) 1.70 (quin, J=7.32 Hz, 2 H) 3.50 (td, J=7.11, 5.02 Hz, 2 H) 4.76 (br. s., 2 H) 5.77 (s, 2 H) 6.14 (d, J=3.02 Hz, 1 H) 7.17 - 7.21 (m, 1 H) 7.62-7.73 (m, 3 H) 7.80 - 7.87 (m, 1 H) 8.25 - 8.34 (m, 1 H) 8.37 (d, J=5.77 Hz, 1 H) 8.59 (br. s., 1 H)	A, 2.61	347
66		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.90 (t, J=7.22 Hz, 3 H) 1.25 - 1.40 (m, 2 H) 1.43 - 1.54 (m, 2	A, 2.15	299

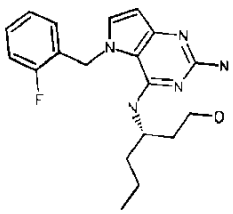
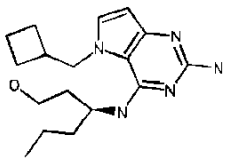
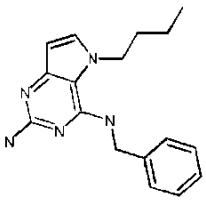
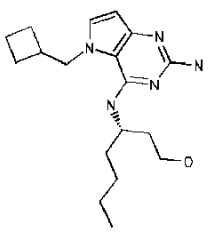
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 3.29 (td, J=7.11, 5.57 Hz, 2 H) 3.87 (br. s., 1 H) 4.07 - 4.22 (m, 2 H) 4.23 - 4.31 (m, 2 H) 4.61 (br. s., 2 H) 6.06 (t, J=2.06 Hz, 2 H) 6.14 (d, J=3.02 Hz, 1 H) 6.29 (t, J=2.06 Hz, 2 H) 6.70 (d, J=3.02 Hz, 1 H)		
67		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.92 (t, J=7.29 Hz, 3 H) 1.26 - 1.47 (m, 2 H) 1.49 - 1.67 (m, 2 H) 2.34 - 2.46 (m, 4 H) 2.72 - 2.81 (m, 2 H) 3.52 (td, J=7.22, 5.77 Hz, 2 H) 3.57 - 3.64 (m, 4 H) 4.17 - 4.24 (m, 2 H) 5.75 - 6.08 (m, 2 H) 6.19 (d, J=3.02 Hz, 1 H) 6.87 (d, J=3.02 Hz, 1 H) 8.19 (br. s., 1 H)	A, 1.16	319
68		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.90 (t, J=7.29 Hz, 3 H) 1.30 - 1.46 (m, 2 H) 1.58 - 1.73 (m, 2 H) 3.53 (td, J=7.01, 5.22 Hz, 2 H) 5.32 (s, 2 H) 5.78 - 6.11 (m, 2 H) 6.18 (d, J=3.02 Hz, 1 H) 6.78 - 6.84 (m, 1 H) 7.01 (d, J=3.02 Hz, 1 H) 7.18 - 7.24 (m, 2 H) 7.46 (d, J=9.07 Hz, 1 H) 7.54 (s, 1 H) 8.06 (d, J=6.74 Hz, 1 H) 8.92 - 9.11 (m, 0 H)	A, 1.76	336
69		^{1}H NMR (300 MHz, CHLOROFORM-d) δ ppm 0.74 (t, J=7.30 Hz, 3 H) 0.90 - 1.12 (m, 2 H) 1.14 - 1.27 (m, 2 H) 3.20 - 3.28 (m, 2 H) 3.85 (s, 3 H)	A, 2.44	326

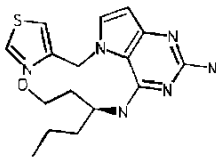
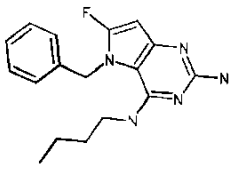
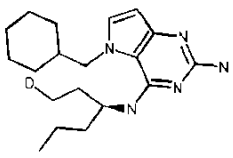
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		4.55 (br. s., 3 H) 5.22 - 5.27 (m, 2 H) 6.18 (d, J=3.02 Hz, 1 H) 6.62 (d, J=7.01 Hz, 1 H) 6.82 (t, J=7.56 Hz, 1 H) 6.87 (d, J=8.25 Hz, 1 H) 6.98 (d, J=3.02 Hz, 1 H) 7.20 - 7.27 (m, 1 H)		
70		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.74 (t, J=7.40 Hz, 3 H) 0.88 - 1.09 (m, 2 H) 1.10 - 1.25 (m, 2 H) 3.18 - 3.28 (m, 2 H) 4.21 (br. s., 1 H) 4.66 (br. s., 2 H) 5.23 (s, 2 H) 6.22 (d, J=3.16 Hz, 2 H) 6.89 (d, J=5.77 Hz, 1 H) 6.96 (d, J=3.02 Hz, 1 H) 8.51 - 8.59 (m, 2 H)	A, 1.14	297
71		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.91 (t, J=7.29 Hz, 3 H) 1.27 - 1.45 (m, 2 H) 1.49 - 1.67 (m, 3 H) 1.85 (d, J=7.01 Hz, 1 H) 1.91 - 2.12	A, 2.17	290
		(m, 2 H) 3.39 - 3.49 (m, 2 H) 3.72 (t, J=6.67 Hz, 2 H) 4.02 (dd, J=15.81, 4.54 Hz, 1 H) 4.12 - 4.23 (m, 1 H) 4.42 (dd, J=15.74, 1.72 Hz, 1 H) 5.76 - 6.13 (m, 2 H) 6.23 (d, J=3.02 Hz, 1 H) 6.82 (d, J=3.02 Hz, 1 H) 7.61 - 7.79 (m, 1 H)		
72		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.78 (t, J=7.30 Hz, 3 H) 1.00 - 1.15 (m, 2 H) 1.16 - 1.29 (m, 2 H) 3.19 - 3.31 (m, 2 H) 4.46 (br. s., 1	A, 2.27	302

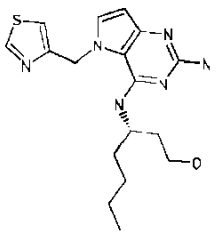
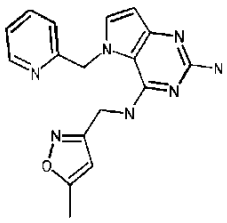
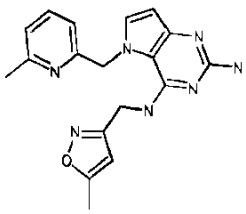
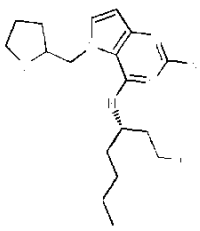
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 4.59 (br. s., 2 H) 5.27 (s, 2 H) 6.17 (d, J=3.02 Hz, 1 H) 6.82 (dd, J=4.95, 1.10 Hz, 1 H) 6.91 - 6.95 (m, 1 H) 6.97 (d, J=3.02 Hz, 1 H) 7.34 (dd, J=4.95, 2.89 Hz, 1 H)		
73		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.79 (t, J=7.20 Hz, 3 H) 1.02 - 1.33 (m, 4 H) 1.90 - 2.08 (m, 2 H) 3.27 (td, J=6.80, 5.36 Hz, 2 H) 4.58 (br. s., 2 H) 5.41 (s, 2 H) 6.19 (d, J=3.02 Hz, 1 H) 6.67 - 6.84 (m, 1 H) 6.93 (dd, J=5.02, 3.51 Hz, 1 H) 6.98 (d, J=3.16 Hz, 1 H) 7.26 (dd, J=5.09, 0.96 Hz, 1 H)	A, 2.28	302
74		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.73 (t, J=7.20 Hz, 3 H) 0.89 (d, J=6.46 Hz, 3 H) 0.93 - 1.07 (m, 2 H) 1.07 - 1.29 (m, 2 H) 4.05 - 4.20 (m, 1 H) 4.43 (d, J=7.84 Hz, 1 H) 5.16 - 5.29 (m, 2 H) 5.33 (s, 2 H) 6.25 (d, J=3.02 Hz, 1 H) 6.68 (t, J=7.49 Hz, 1 H) 7.02 - 7.13 (m, 3 H) 7.23 - 7.34 (m, 1 H)	A, 2.53	328
75		^{1}H NMR (300 MHz, CHLOROFORM-*d*) δ ppm 0.72 (t, J=7.00 Hz, 3 H) 0.83 (d, J=6.46 Hz, 3 H) 0.86 - 1.07 (m, 2 H) 1.08 - 1.22 (m, 2 H) 3.74 (s, 3 H) 4.07 (s, 1 H) 4.57 - 4.62 (m, 1 H) 5.23 (s, 2 H) 5.30 - 5.55 (m, 2 H)	A, 2.58	340

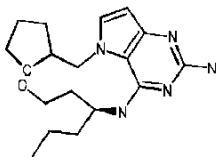
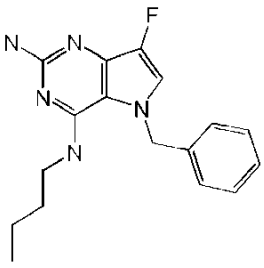
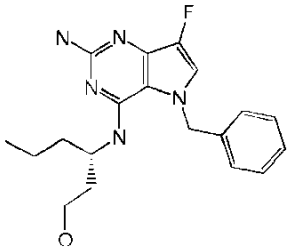
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		6.24 (d, J=3.02 Hz, 1 H) 6.82 - 6.89 (m, 2 H) 6.90 - 6.97 (m, 2 H) 7.02 (d, J=3.02 Hz, 1 H)		
76		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.68 (t, J=7.20 Hz, 1 H) 0.81 - 0.95 (m, 2 H) 0.96 - 1.14 (m, 2 H) 1.16 - 1.36 (m, 2 H) 1.36 - 1.62 (m, 2 H) 3.21 - 3.28 (m, 2 H) 4.09 - 4.25 (m, 1 H) 4.39 - 4.48 (m, 1 H) 5.15 - 5.26 (m, 2 H) 5.32 - 5.39 (m, 1 H) 5.40 - 5.50 (m, 1 H) 5.55 - 5.65 (m, 1 H) 5.96 (d, J=2.90 Hz, 1 H) 6.34 - 6.44 (m, 1 H) 6.97 - 7.05 (m, 1 H) 7.10 - 7.30 (m, 3 H)	A, 2.34	372
77		^{1}H NMR (300 MHz, CHLOROFORM-d) δ ppm 0.73 (t, J=7.20 Hz, 3 H) 0.80 - 1.00 (m, 4 H) 1.00 - 1.33 (m, 2 H) 1.47 - 1.83 (m, 3 H) 3.15 - 3.26 (m, 1 H) 3.32 - 3.43 (m, 1 H) 3.72 (s, 3 H) 4.01 - 4.14 (m, 1 H) 4.22 (d, J=8.25 Hz, 1 H) 4.40 (br. s., 2 H) 5.16 - 5.29 (m, 2 H) 6.18 (d, J=3.02 Hz, 1 H) 6.80 - 6.95 (m, 4 H) 7.03 (d, J=3.02 Hz, 1 H)	A, 2.34	384
78		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.31 (t, *J* = 7.9 Hz, 1H), 7.12 (d, *J* = 3.0 Hz, 1H), 6.95 (d, *J* = 8.5 Hz, 1H), 6.89 (d, *J* = 7.6 Hz, 1H), 6.63 (d, *J* = 6.9 Hz, 1H), 6.29 (d, *J* = 3.0 Hz, 1H), 5.33 (d,	A, 2.42	384

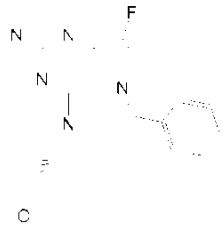
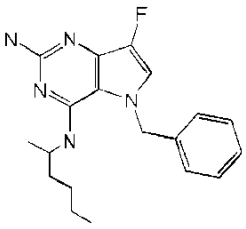
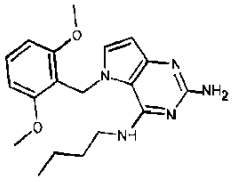
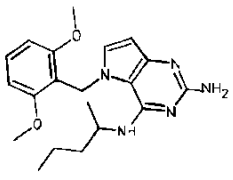
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		*J* = 6.0 Hz, 2H), 5.02 (s, 2H), 4.60 (s, 1H), 4.20 (s, 1H), 3.92 (s, 3H), 3.50 - 3.35 (m, 1H), 3.24 (td, *J* = 11.6, 2.7 Hz, 1H), 1.86 - 1.69 (m, 2H), 1.44 - 1.29 (m, 1H), 1.29 - 0.92 (m, 6H), 0.81 (t, *J* = 7.2 Hz, 3H).		
79		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.34 (t, *J* = 7.8 Hz, 1H), 7.10 (d, *J* = 3.0 Hz, 1H), 6.97 (d, *J* = 8.5 Hz, 1H), 6.91 (d, *J* = 7.4 Hz, 1H), 6.65 (d, *J* = 7.4 Hz, 1H), 6.31 (d, *J* = 3.0 Hz, 1H), 5.33 (s, 2H), 4.76 (d, *J* = 7.2 Hz, 1H), 4.18 (dt, *J* = 14.2, 6.9 Hz, 1H), 3.93 (s, 3H), 1.24 - 0.95 (m, 6H), 0.91 (d, *J* = 6.5 Hz, 3H), 0.79 (t, *J* = 7.0 Hz, 3H).	A, 2.60	340
80		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.24 (t, *J* = 7.8 Hz, 1H), 7.05 (d, *J* = 3.0 Hz, 1H), 6.88 (d, *J* = 8.3 Hz, 1H), 6.83 (t, *J* = 7.8 Hz, 1H), 6.56 (d, *J* = 7.3 Hz, 1H), 6.21 (d, *J* = 3.0 Hz, 1H), 5.26 (2d, *J* = 6.0 Hz, 2H), 4.90 (s, 2H), 4.52 (d, *J* = 8.3 Hz, 1H), 4.17 (dd, *J* = 9.1, 6.4 Hz, 1H), 3.86 (s, 3H), 3.36 (ddd, *J* = 11.8, 5.0, 2.7 Hz, 1H), 3.17 (td, *J*= 11.5, 2.7 Hz, 1H), 1.77 - 1.60 (m, 1H), 1.37 - 1.13 (m, 2H), 1.09 - 0.75 (m, 4H), 0.71 (t, *J* = 7.0 Hz, 3H).	A, 2.25	370
81		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.27	A, 2.19	358

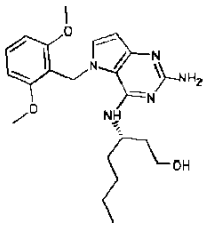
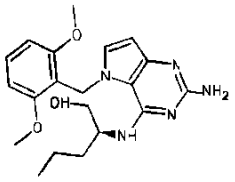
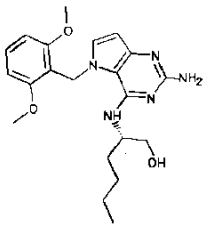
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		(dd, *J* = 13.6, 6.2 Hz, 1H), 7.09 (d, *J* = 10.1 Hz, 1H), 7.05 (d, *J* = 3.1 Hz, 1H), 7.02 (d, *J* = 7.7 Hz, 1H), 6.63 (t, *J* = 7.2 Hz, 1H), 6.24 (d, *J* = 3.0 Hz, 1H), 5.42 - 5.25 (m, 2H), 4.78 (s, 2H), 4.43 (s, 1H), 4.20 (s, 1H), 3.48 - 3.36 (m, 1H), 3.25 (td, *J* = 11.6, 2.5 Hz, 1H), 1.82 - 1.65 (m, 2H), 1.39 - 0.86 (m, 5H), 0.71 (t, *J* = 7.1 Hz, 3H).		
82		^{1}H NMR (300 MHz, $CDCl_3$) δ 6.92 (d, *J* = 3.0 Hz, 1H), 6.16 (d, *J* = 3.0 Hz, 1H), 5.85 (s, 1H), 5.51 (s, 2H), 4.60 - 4.39 (m, 1H), 4.24 - 4.04 (m, 2H), 3.81 (d, *J* = 6.6 Hz, 2H), 2.71 (dt, *J* = 14.9, 7.5 Hz, 1H), 2.15 - 1.32 (m, 13H), 0.97 (t, *J* = 7.3 Hz, 3H).	A, 2.22	318
83		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.44 - 7.28 (m, 5H), 6.93 (d, *J* = 3.0 Hz, 1H), 6.17 (d, *J* = 3.0 Hz, 1H), 4.95 (s, 1H), 4.83 (s, 2H), 4.78 (d, *J* = 5.2 Hz, 2H), 4.03 (t, *J* = 7.2 Hz, 2H), 1.85 - 1.59 (m, 2H), 1.35 - 1.10 (m, 2H), 0.84 (t, *J* = 7.3 Hz, 3H).	A, 2.55	296
84		^{1}H NMR (300 MHz, $CDCl_3$) δ 6.94 (d, J= 3.0 Hz, 1H), 6.17 (d, *J* = 3.0 Hz, 1H), 5.08 (s, 2H), 4.46 (s, 1H), 4.27 - 3.99 (m, 2H), 3.72 (d, *J* = 6.9 Hz, 2H), 8.12 - -0.50 (m, 60H), 2.71 (dd, *J* = 14.9, 7.4 Hz, 1H), 2.13 - 1.31 (m,	A, 2.65	332

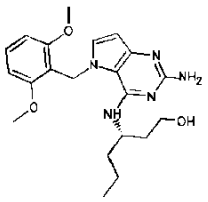
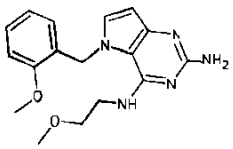
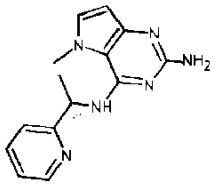
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		16H), 0.92 (t, *J* = 6.8 Hz, 3H).		
85		^{1}H NMR (300 MHz, $CDCl_3$) δ 8.75 (d, *J* = 1.9 Hz, 1H), 7.19 (s, *J* = 1.9 Hz, 1H), 7.02 (d, *J* = 3.0 Hz, 2H), 6.19 (d, *J* = 3.0 Hz, 1H), 5.36 (s, 2H), 5.22 - 4.88 (m, 2H), 4.37 (s, 2H), 3.48 (dd, *J* = 23.1, 14.8 Hz, 3H), 2.03 - 1.83 (m, 2H), 1.81 - 1.05 (m, 5H), 0.82 (dt, *J* = 19.4, 7.1 Hz, 3H).	A, 1.35	347
86		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.48 - 7.28 (m, 3H), 7.15 (d, *J* = 6.8 Hz, 2H), 5.72 (d, *J* = 3.3 Hz, 1H), 5.25 (s, 2H), 4.44 (s, 2H), 4.16 (s, 1H), 3.23 (dd, *J* = 12.0, 6.8 Hz, 2H), 1.18 (dd, *J* = 14.4, 7.1 Hz, 2H), 1.03 (dd, *J* = 15.0, 7.1 Hz, 2H), 0.79 (t, *J* = 7.1 Hz, 3H).	A, 2.58	314
87		^{1}H NMR (300 MHz, $CDCl_3$) δ 6.88 (d, *J* = 3.0 Hz, 1H), 6.13 (d, *J* = 2.9 Hz, 1H), 5.60 (s, 1H), 5.46 (s, 2H), 4.57 - 4.45 (m, 1H), 4.00 (dd, *J* = 15.0, 6.2 Hz, 1H), 3.89 - 3.69 (m, 3H), 2.10 - 1.91 (m, 2H), 1.85 - 1.06 (m, 16H), 0.95 (dd, *J* = 15.9, 8.6 Hz, 3H).	A, 1.89	346
88		^{1}H NMR (300 MHz, $CDCl_3$) δ 8.79 (d, *J* = 1.9 Hz, 1H), 7.19 (d, *J* = 1.6 Hz, 1H), 7.07 (s, 1H), 6.25 (d, *J* = 8.1 Hz, 1H), 6.22 (d, *J* = 3.0 Hz, 1H), 5.43 (d, *J* = 1.3 Hz, 2H), 4.42 (s, 2H), 4.34	A, 1.51	361

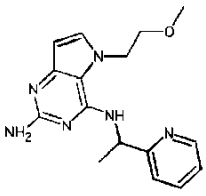
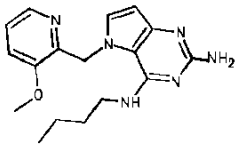
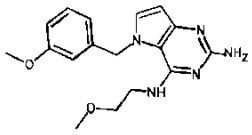
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		(ddd, *J* = 11.0, 5.5, 2.9 Hz, 1H), 3.57 (dd, *J* = 11.8, 2.6 Hz, 1H), 3.44 (td, *J* = 11.7, 2.4 Hz, 2H), 2.03 - 1.87 (m, 2H), 1.70 - 1.45 (m, 2H), 1.41 -1.18 (m, 4H), 0.87 (t, *J* = 6.5 Hz, 3H).		
89		^{1}H NMR (300 MHz, $CDCl_3$) δ 9.55 (s, 1H), 8.34 (d, *J* = 4.5 Hz, 1H), 7.70 (td, *J* = 7.7, 1.7 Hz, 1H), 7.30 (d, *J* = 7.8 Hz, 1H), 7.23 (dd, *J* = 7.0, 5.1 Hz, 1H), 7.04 (d, *J* = 3.0 Hz, 1H), 6.21 (d, *J* = 3.0 Hz, 1H), 5.92 (s, 3H), 5.25 (s, 2H), 4.75 (d, *J* = 5.5 Hz, 2H), 2.32 (s, 3H).	A, 1.25	336
90		^{1}H NMR (300 MHz, $CDCl_3$) δ 9.39 (s, 1H), 7.63 (t, *J* = 7.7 Hz, 1H), 7.17 (s, 1H), 7.14 (d, *J* = 5.5 Hz, 1H), 7.10 (d, *J* = 3.2 Hz, 1H), 6.24 (d, J= 3.0 Hz, 1H), 6.01 (s, 1H), 5.33 (s, 2H), 5.27 (s, 2H), 4.83 (d, *J* = 5.6 Hz, 2H), 2.39 (s, 3H), 2.38 (s, 3H).	A, 1.37	350
91		^{1}H NMR (300 MHz, $CDCl_3$) δ 6.90 (d, *J* = 3.0 Hz, 1H), 6.26 (d, *J* = 3.0 Hz, 1H), 5.49 (s, 1H), 5.34 (d, *J* = 23.9 Hz, 2H), 4.55 - 4.31 (m, 2H), 4.23 (s, 1H), 4.09 (dd, *J* = 15.8, 4.2 Hz, 1H), 3.85 - 3.49 (m, 4H), 2.15 - 1.81 (m, 6H), 1.75 - 1.54 (m, 4H), 1.54 - 1.30 (m, 3H), 0.89 (dd, *J* = 14.3, 7.3 Hz, 3H).	A, 2.22	348

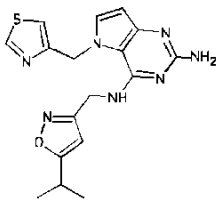
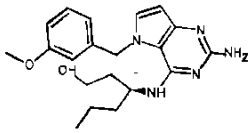
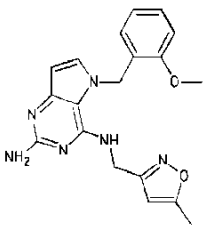
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
92		^{1}H NMR (300 MHz, $CDCl_3$) δ 6.70 (d, *J* = 2.9 Hz, 1H), 6.06 (d, *J* = 3.0 Hz, 1H), 5.43 (s, 1H), 5.31 (s, 2H), 4.26 (t, *J* = 12.8 Hz, 2H), 4.03 (s, 1H), 3.89 (dd, *J* = 15.8, 4.3 Hz, 1H), 3.69 - 3.24 (m, 4H), 2.09 - 1.61 (m, 4H), 1.60 - 1.33 (m, 4H), 1.31 - 1.09 (m, 3H), 0.74 (t, *J* = 7.2 Hz, 3H).	A, 2.00	334
93		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.37 (t, *J* = 7.4 Hz, 3H), 7.08 (d, *J* = 6.6 Hz, 2H), 6.90 (d, *J* = 2.7 Hz, 1H), 5.25 (s, 2H), 4.53 (s, 2H), 4.35 (s, 1H), 3.25 (dd, *J* = 12.1, 6.8 Hz, 2H), 1.32 - 1.13 (m, 2H), 1.04 (dq, *J* = 13.9, 7.1 Hz, 2H), 0.79 (t, *J* = 7.2 Hz, 3H).	A, 2.40	314
94		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.38 (q, *J* = 6.2 Hz, 3H), 7.07 (d, *J* = 6.5 Hz, 2H), 6.97 (d, *J* = 2.7 Hz, 1H), 5.26 (d, *J* = 2.4 Hz, 2H), 4.52 (s, 2H), 4.20 (d, *J* = 11.6 Hz, 1H), 3.42 (d, *J* = 11.7 Hz, 1H), 3.22 (td, *J* = 11.7, 2.4 Hz, 2H), 1.85 - 1.66 (m, 2H), 1.24 (d, *J* = 7.1 Hz, 2H), 0.95 (ddd, *J* = 24.8, 13.8, 9.0 Hz, 3H), 0.75 (t, *J* = 6.8 Hz, 3H).	A, 2.24	358
95		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.46 - 7.31 (m, 3H), 7.07 (d, *J* = 6.5 Hz, 2H), 6.97 (d, *J* = 2.7 Hz, 1H), 5.26 (d, *J* = 3.3 Hz, 2H), 4.55 (s, 2H), 4.32 -	A, 2.44	372

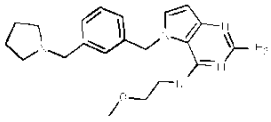
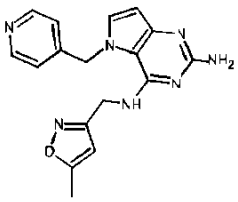
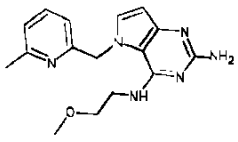
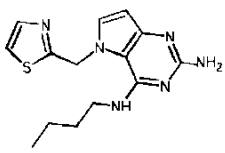
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		4.02 (m, 1H), 3.53 - 3.33 (m, 1 H), 3.22 (td, *J* = 11. 7, 2.5 Hz, 2H), 1.74 (ddd, *J* = 14.3, 8.6, 4.1 Hz, 2H), 1.38 - 1.08 (m, 3H), 0.93 (ddd, *J* = 13.8, 11.7, 4.3 Hz, 4H), 0.80 (t, *J* = 7.2 Hz, 3H).		
96		^{1}H NMR (300 MHz, $CDCl_3$) δ 7.49 - 7.30 (m, 3H), 7.08 (d, *J* = 6.3 Hz, 2H), 6.91 (d, *J* = 2.7 Hz, 1H), 5.24 (s, 2H), 4.51 (s, 2H), 4.28 - 3.96 (m, 1H), 1.08 (dddd, *J* = 18.0, 16.8, 13.6, 10.8 Hz, 7H), 0.85 (d, *J* = 6.4 Hz, 3H), 0.77 (dd, *J* = 9.4, 4.5 Hz, 3H).	A, 2.55	328
97		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.94 (t, *J*=7.4 Hz, 3H), 1.29 - 1.47 (m, 2 H), 1.61 (t, *J*=7.1 Hz, 2 H), 3.46 (q, *J*=6.7 Hz, 2 H), 3.80 (s, 6 H), 5.17 (s, 2 H), 5.31 (s, 2 H), 5.80 (d, *J*=2.9 Hz, 1 H), 6.33 (t, *J*=5.4 Hz, 1 H), 6.66 - 6.83 (m, 3 H), 7.38 (t, *J*=8.5 Hz, 1 H)	A,2.79	356
98		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.91 (t, J=7.29 Hz, 3 H) 1.14 - 1.43 (m, 5 H) 1.46 - 1.72 (m, 2 H) 3.79 (s, 6 H) 4.41 - 4.60 (m, 1 H) 5.32 - 5.49 (m, 2 H) 6.02 (d, J=3.02 Hz, 1 H) 6.72 - 6.88 (m, 5 H) 6.92 (d, J=3.02 Hz, 1 H) 7.40 (t, J=8.39 Hz, 1 H)	A,2.97	370
99		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.79 - 0.93 (m, 3 H) 1.18 - 1.39 (m, 4	A,2.70	414

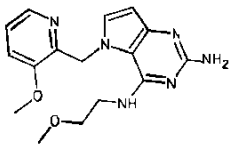
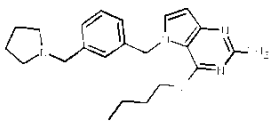
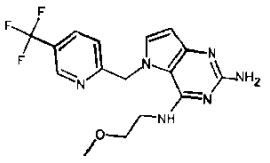
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 1.49 - 1.86 (m, 4 H) 3.41 - 3.54 (m, 2 H) 3.78 (s, 6 H) 4.30 - 4.48 (m, 1 H) 4.56 - 4.70 (m, 1 H) 5.10 - 5.24 (m, 2 H) 5.32 (s, 2 H) 5.78 - 5.83 (m, 1 H) 5.85 - 5.93 (m, 1 H) 6.76 (s, 3 H) 7.30 - 7.44 (m, 1 H)		
100		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.74 - 1.01 (m, 3 H) 1.19 - 1.44 (m, 2 H) 1.46 - 1.74 (m, 2 H) 3.45 - 3.58 (m, 2 H) 3.80 (s, 6 H) 4.24 - 4.43 (m, 1H) 4.75 - 4.88 (m, 1 H) 5.11-5.22 (m, 2 H) 5.23-5.36 (m, 2 H) 5.74-5.81 (m, 1H) 5.81-5.85 (m, 1 H) 6.78 (s, 3 H) 7.29-7.44 (m, 1 H)	A,2.49	386
101		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.75 - 0.93 (m, 3 H) 1.19 - 1.40 (m, 4 H) 1.45 - 1.61 (m, 1H) 1.61-1.78 (m, 1 H) 3.44 - 3.63 (m, 2 H) 3.80 (s, 6 H) 4.31 (d, J=4.95 Hz, 1 H) 4.81 (br. s., 1 H) 5.17 (s, 2 H) 5.30 (s, 2 H) 5.78 (d, J=8.52 Hz, 1 H) 5.83 (d, J=3.02 Hz, 1 H) 6.69 - 6.82 (m, 1 H) 6.69 - 6.82 (m, 2 H) 7.37 (t, J=8.39 Hz, 1 H)	A,2.69	400

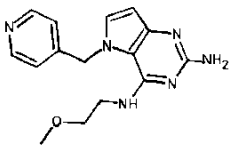
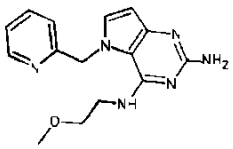
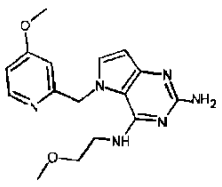
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
102		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 0.89 (t, J=7.40 Hz, 3 H) 1.20 - 1.42 (m, 2 H) 1.44 - 1.85 (m, 4 H) 3.42 - 3.54 (m, 2 H) 3.78 (s, 6 H) 4.32 - 4.51 (m, 1H) 4.56 - 4.69 (m, 1 H) 5.12 - 5.23 (m, 2 H) 5.32 (s, 2 H) 5.81 (d, J=2.90 Hz, 1 H) 5.85 - 5.93 (m, 1 H) 6.71 - 6.79 (m, 3 H) 7.31 - 7.44 (m, 1 H)	A,2.57	400
103		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.17 (s, 3 H) 3.31 - 3.42 (m, 3 H) 3.45 - 3.56 (m, 3 H) 3.86 (s, 3 H) 5.11 (br. s., 2 H) 5.35 (s, 2 H) 5.62 (t, J=5.05 Hz, 1 H) 5.97 (d, J=2.83 Hz, 1 H) 6.60 - 6.69 (m, 1 H) 6.84 (td, J=7.47, 0.81 Hz, 1 H) 7.05 (d, J=8.07 Hz, 1 H) 7.18 (d, J=3.23 Hz, 1 H) 7.22 - 7.33 (m, 1 H)	D,0.74	328
104		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 1.56 (d, J=6.87 Hz, 3 H) 4.01 (s, 3 H) 5.26 (s, 2 H) 5.49 (t, J=7.01 Hz, 1 H) 5.89 (d, J=2.89 Hz, 1 H) 6.67 (d, J=7.42 Hz, 1 H) 7.14 (d, J=2.89 Hz, 1 H) 7.28 (dd, J=7.01, 5.22 Hz, 1 H) 7.50 (d, J=7.84 Hz, 1 H) 7.78 (td, J=7.70, 1.65 Hz, 1 H) 8.56 (d, J=4.67 Hz, 1 H)	A,1.23	269
105		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 1.53 (d, J=6.87 Hz, 3 H) 3.24 (s, 3 H)	A,1.45	313

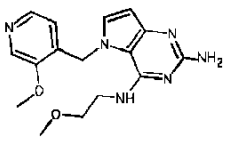
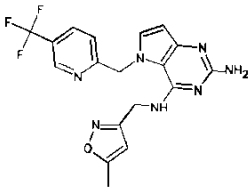
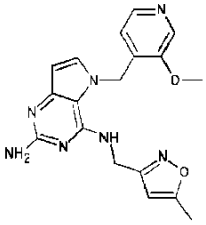
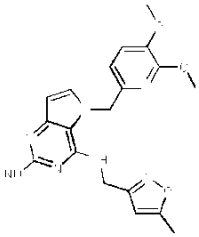
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		3.68 (t, J=4.81 Hz, 2 H) 4.42 (t, J=4.81 Hz, 2 H) 5.24 (s, 2 H) 5.47 (t, J=7.01 Hz, 1 H) 5.94 (d, J=2.89 Hz, 1 H) 6.93 (d, J=7.42 Hz, 1 H) 7.20 (d, J=3.02 Hz, 1 H) 7.26 (dd, J=7.22, 5.02 Hz, 1 H) 7.47 (d, J=7.84 Hz, 1 H) 7.75 (td, J=7.63, 1.37 Hz, 1 H) 8.55 (d, J=4.81 Hz, 1 H)		
106		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.95 (t, J=7.37 Hz, 3 H) 1.37 - 1.46 (m, 2 H) 1.64 (quin, J=7.26 Hz, 2 H) 3.42 (td, J=6.93, 5.28 Hz, 2 H) 3.90 (s, 3 H) 5.18 (s, 2 H) 5.38 (s, 2 H) 5.89 (d, J=3.08 Hz, 1 H) 7.21 (d, J=3.08 Hz, 1 H) 7.42 (dd, J=8.47, 4.73 Hz, 1 H) 7.54 - 7.60 (m, 2 H) 8.11 (dd, J=4.73, 1.21 Hz, 1 H)	D,0.90	327
107		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.20 (s, 3 H) 3.36 (t, J=6.05 Hz, 2 H) 3.47 - 3.54 (m, 2 H) 3.71 (s, 3 H) 5.29 (s, 2 H) 5.42 (s, 2 H) 5.88 (t, J=5.50 Hz, 1 H) 6.00 (d, J=2.86 Hz, 1 H) 6.61 (d, J=7.48 Hz, 1 H) 6.63 - 6.66 (m, 1 H) 6.83 (dd, J=8.14, 2.20 Hz, 1 H) 7.23 (t, J=7.92 Hz, 1 H) 7.35 (d, J=3.08 Hz, 1 H)	D,0.71	328
108		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.21 (d, J=7.04 Hz, 6 H) 3.02 (m, J=6.60, 6.60, 6.60, 6.60, 6.60, Hz, 0	D,0.77	370

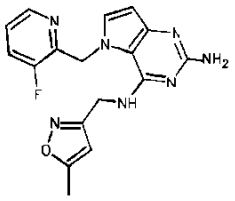
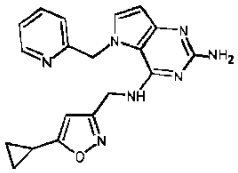
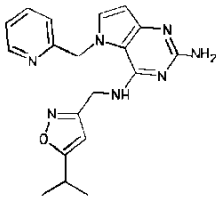
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 4.64 (d, J=5.72 Hz, 2 H) 5.35 (s, 2 H) 5.56 (s, 2 H) 5.97 (d, J=3.08 Hz, 1 H) 6.01 (d, J=0.66 Hz, 1 H) 7.24 (t, J=5.83 Hz, 1 H) 7.32 (d, J=3.08 Hz, 1 H) 7.40 (d, J=1.98 Hz, 1 H) 9.03 (d, J=1.76 Hz, 1 H)		
109		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.70 (t, J=7.04 Hz, 3 H) 0.84 - 0.95 (m, 2 H) 1.17 - 1.35 (m, 2 H) 1.38 - 1.46 (m, 1 H) 1.53 - 1.62 (m, 1 H) 3.23 - 3.34 (m, 2 H) 3.68 (s, 3 H) 4.22 (dt, J=8.53, 4.43 Hz, 1 H) 4.49 (t, J=5.50 Hz, 1 H) 5.14 (d, J=8.58 Hz, 1 H) 5.23 (s, 2 H) 5.45 (q, J=16.95 Hz, 2 H) 5.98 (d, J=2.86 Hz, 1 H) 6.48 (d, J=7.70 Hz, 1 H) 6.56 - 6.58 (m, 1 H) 6.82 (dd, J=8.14, 2.20 Hz, 1 H) 7.21 (t, J=7.92 Hz, 1 H) 7.34 (d, J=3.08 Hz, 1 H)	D,0.8	370
110		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.30 (s, 3 H) 3.80 (s, 3 H) 4.55 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.41 (s, 2 H) 5.71 (d, J=0.88 Hz, 1 H) 5.99 (d, J=2.86 Hz, 1 H) 6.44 (dd, J=7.59, 1.43 Hz, 1 H) 6.50 (t, J=5.83 Hz, 1 H) 6.80 (td, J=7.43, 0.99 Hz, 1 H) 7.01 (d, J=7.48 Hz, 1 H) 7.21 - 7.27 (m, 2 H)	D,0.79	365

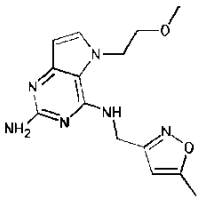
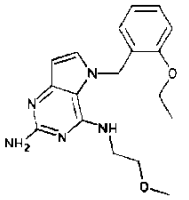
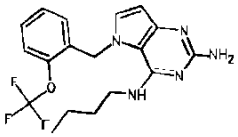
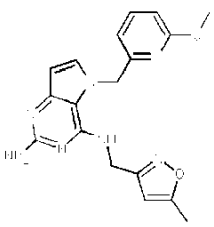
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
111		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.59 - 1.70 (m, 4 H) 2.28 - 2.39 (m, 4 H) 3.18 (s, 3 H) 3.32 (t, J=6.46 Hz, 2 H) 3.44 - 3.50 (m, 4 H) 5.26 (s, 2 H) 5.43 (s, 2 H) 5.86 (t, J=4.84 Hz, 1 H) 5.97 (d, J=2.83 Hz, 1 H) 6.84 - 6.90 (m, 0 H) 7.03 (s, 1 H) 7.15 (m, J=7.67 Hz, 1 H) 7.22 (t, J=7.30 Hz, 1 H) 7.32 (d, J=3.23 Hz, 1 H)	E,1.18	381
112		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 2.29 (s, 3 H) 4.55 (d, J=5.50 Hz, 2 H) 5.55 (s, 1 H) 5.61 (s, 2 H) 5.68 (br. s., 2 H) 6.11 (d, J=2.89 Hz, 1 H) 6.83 (d, J=5.64 Hz, 2 H) 6.92 (t, J=5.43 Hz, 1 H) 7.43 (d, J=3.02 Hz, 1 H) 8.44 (d, J=5.77 Hz, 2 H)	A,0.994	336
113		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.60 (s, 3 H) 3.22 (s, 3 H) 3.52 (t, J=5.70 Hz, 2 H) 3.72 (q, J=5.58 Hz, 2 H) 5.71 (br. s., 2 H) 6.26 (d, J=3.08 Hz, 1 H) 7.21 (d, J=7.48 Hz, 1 H) 7.34 - 7.58 (m, 3 H) 7.72 (d, J=2.86 Hz, 1 H) 7.94 (t, J=7.70 Hz, 1 H) 8.81 - 8.97 (m, 1 H) 12.60 (br. s., 1 H)	E,1.28	313
114		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.87 (t, J=7.37 Hz, 3 H) 1.18 - 1.32 (m, 2 H) 1.50 (quin, J=7.21 Hz, 2 H) 3.33 - 3.38 (m, 2 H) 5.27 (s, 2 H) 5.79 (s, 2 H) 5.99 (d, J=3.08 Hz, 1 H)	E,1.6	303

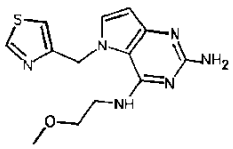
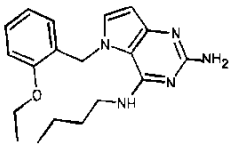
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		6.47 (t, J=5.28 Hz, 1 H) 7.35 (d, J=2.86 Hz, 1 H) 7.67 (d, J=3.08 Hz, 1 H) 7.77 (d, J=3.30 Hz, 1 H)		
115		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.30 (s, 3 H) 3.52 - 3.57 (m, 2 H) 3.57 - 3.64 (m, 2 H) 3.90 (s, 3 H) 5.23 (s, 2 H) 5.37 (s, 2 H) 5.90 (d, J=3.08 Hz, 1 H) 7.21 (d, J=2.86 Hz, 1 H) 7.41 (dd, J=8.36, 4.62 Hz, 1 H) 7.54 (dd, J=8.58, 1.10 Hz, 1 H) 7.80 (t, J=4.95 Hz, 1 H) 8.12 (dd, J=4.73, 1.21 Hz, 1 H)	D,0.68	329
116		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.78 (t, J=7.30 Hz, 3 H) 1.01 - 1.11 (m, 2 H) 1.33 (quin, J=7.26 Hz, 2 H) 1.62 - 1.68 (m, 4 H) 2.31 - 2.37 (m, 4 H) 3.25 - 3.29 (m, 2 H) 3.48 (s, 2 H) 5.21 (s, 2 H) 5.47 (s, 2 H) 5.69 (t, J=5.39 Hz, 1 H) 5.97 (d, J=2.86 Hz, 1 H) 6.79 (d, J=7.48 Hz, 1 H) 7.01 (s, 1 H) 7.15 (d, J=7.70 Hz, 1 H) 7.21 (t, J=7.59 Hz, 1 H) 7.31 (d, J=2.86 Hz, 1 H)	D,0.73	379
117		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.15 (s, 3 H) 3.35 (t, J=5.83 Hz, 2 H) 3.50 (q, J=5.65 Hz, 2 H) 5.30 (s, 2 H) 5.63 (s, 2 H) 6.01 (d, J=3.08 Hz, 1 H) 6.56 (t, J=5.39 Hz, 1 H) 7.17 (d, J=8.36 Hz, 1 H) 7.39 (d, J=3.08 Hz, 1	D,0.77	367

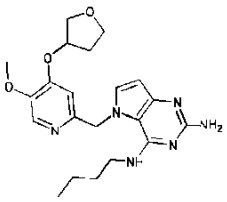
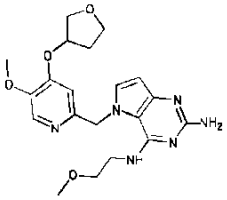
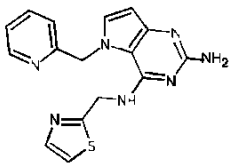
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 8.21 (dd, J=8.36, 1.98 Hz, 1 H) 8.91 - 8.94 (m, 1 H)		
118		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 3.15 (s, 3 H) 3.25 - 3.31 (m, 2 H) 3.47 (d, J=5.77 Hz, 2 H) 5.32 (s, 2 H) 5.53 (s, 2 H) 5.97 (s, 1 H) 6.03 (d, J=2.89 Hz, 1 H) 6.91 (d, J=5.91 Hz, 2 H) 7.36 (d, J=3.02 Hz, 1 H) 8.47 (d, J=5.91 Hz, 2 H)	A,0.83	299
119		^{1}H NMR (300 MHz, DMSO-d_6) δ ppm 3.26 (s, 3 H) 3.44 - 3.52 (m, 2 H) 3.52 - 3.62 (m, 2 H) 5.30 (s, 2 H) 5.44 (s, 2 H) 5.96 (d, J=3.02 Hz, 1 H) 7.29 (d, J=7.70 Hz, 1 H) 7.33 - 7.45 (m, 1 H) 7.33 - 7.45 (m, 2 H) 7.83 (td, J=7.70, 1.65 Hz, 1 H) 8.56 (d, J=4.26 Hz, 1 H)	A,0.83	299
120		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.25 - 3.29 (m, 3 H) 3.47 - 3.54 (m, 2 H) 3.54 - 3.61 (m, 2 H) 3.81 (s, 3 H) 5.25 (s, 2H) 5.33 (s, 2 H) 5.94 (d, J=3.08 Hz, 1 H) 6.95 (dd, J=5.72, 2.64 Hz, 1 H) 6.98 (d, J=2.42 Hz, 1 H) 7.39 (d, J=3.08 Hz, 1 H) 7.74 (t, J=5.06 Hz, 1 H) 8.37 (d, J=5.72 Hz, 1 H)	D,0.65	329
121		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.18 (s, 3 H) 3.38 (t, J=5.70 Hz, 2 H) 3.51 (q, J=5.65 Hz, 2 H) 3.91 (s, 3 H)	D,0.52	329

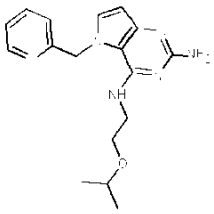
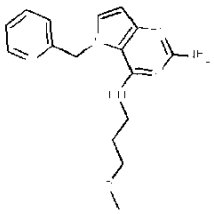
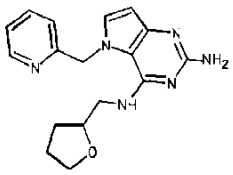
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		5.31 (s, 2 H) 5.40 (s, 2 H) 5.95 - 6.00 (m, 2 H) 7.08 (d, J=5.72 Hz, 1 H) 7.21 (d, J=3.08 Hz, 1 H) 7.65 (s, 1 H) 8.38 (d, J=5.72 Hz, 1 H)		
122		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.28 (s, 3 H) 4.56 (d, J=5.94 Hz, 2 H) 5.38 (s, 2 H) 5.68 (s, 2 H) 5.76 (d, J=0.88 Hz, 1 H) 6.05 (d, J=3.08 Hz, 1 H) 7.04 (d, J=8.36 Hz, 1 H) 7.08 (t, J=5.83 Hz, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 8.16 (dd, J=8.36, 1.98 Hz, 1 H) 8.82 - 8.85 (m, 1 H)	D,0.80	404
123		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (s, 3 H) 3.85 (s, 3 H) 4.56 (d, J=5.72 Hz, 2 H) 5.37 (s, 2 H) 5.44 (s, 2 H) 5.82 (s, 1 H) 6.01 (d, J=3.08 Hz, 1 H) 6.70 (t, J=5.72 Hz, 1 H) 7.05 (d, J=5.72 Hz, 1 H) 7.22 (d, J=2.86 Hz, 1 H) 7.53 (s, 1 H) 8.37 (d, J=5.50 Hz, 1 H)	D,0.58	366
124		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (s, 3 H) 3.71 (s, 3 H) 3.72 (s, 3 H) 4.60 (d, J=5.72 Hz, 2 H) 5.32 - 5.37 (m, 4 H) 5.86 (s, 1 H) 5.99 (d, J=2.86 Hz, 1 H) 6.55 (d, J=7.92 Hz, 1 H) 6.83 (t, J=5.83 Hz, 1 H) 7.19 (d, J=7.92 Hz, 1 H) 7.34 (d, J=2.86 Hz, 1 H)	D,0.70	396
125		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm	D,0.67	354

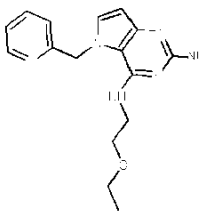
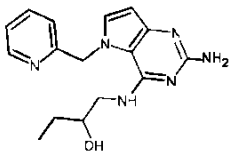
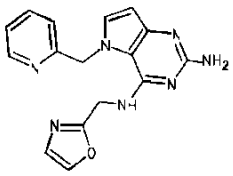
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		2.34 (s, 3 H) 4.63 (d, J=5.50 Hz, 2 H) 5.36 (s, 2 H) 5.58 (d, J=1.76 Hz, 2 H) 5.97 (d, J=3.08 Hz, 1 H) 6.06 (d, J=0.88 Hz, 1 H) 7.26 (dd, J=3.08, 0.88 Hz, 1 H) 7.44 - 7.49 (m, 1 H) 7.62 (t, J=5.72 Hz, 1 H) 7.78 (ddd, J=9.90, 8.47, 1.21 Hz, 1 H) 8.21 - 8.24 (m, 1 H)		
126		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.76 - 0.83 (m, 2 H) 0.99 - 1.04 (m, 2 H) 2.06 (tt, J=8.47, 4.95 Hz, 1 H) 4.59 (d, J=5.50 Hz, 2 H) 5.36 (s, 2 H) 5.48 (s, 2 H) 5.90 (s, 1 H) 5.99 (d, J=2.86 Hz, 1 H) 7.14 - 7.17 (m, 1 H) 7.31 - 7.35 (m, 1 H) 7.40 (d, J=2.86 Hz, 1 H) 7.74 (t, J=5.61 Hz, 1 H) 7.76 - 7.82 (m, 1 H) 8.40 - 8.43 (m, 1 H)	D,0.74	362
127		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.19 (d, J=7.04 Hz, 6 H) 2.94 - 3.08 (m, 1 H) 4.63 (d, J=5.72 Hz, 2 H) 5.37 (s, 2 H) 5.49 (s, 2 H) 5.93 (s, 1 H) 5.99 (d, J=3.08 Hz, 1 H) 7.15 (d, J=7.92 Hz, 1 H) 7.32 (dd, J=7.04, 5.06 Hz, 1 H) 7.41 (d, J=2.86 Hz, 1 H) 7.74 (t, J=5.61 Hz, 1 H) 7.78 (td, J=7.70, 1.76 Hz, 1 H) 8.40 (d, J=4.18 Hz, 1 H)	D,0.79	364
128		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.35 (d, J=0.66 Hz, 3 H) 3.15 (s, 3 H)	E,1.09	303

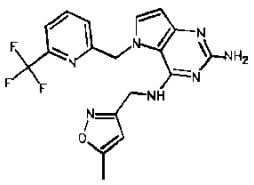
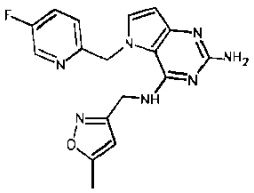
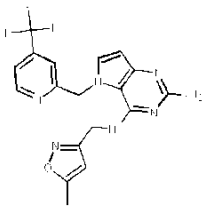
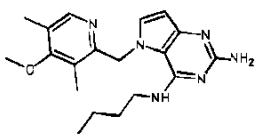
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		3.55 (t, J=5.06 Hz, 2 H) 4.36 (t, J=4.95 Hz, 2 H) 4.62 (d, J=5.72 Hz, 2 H) 5.31 (s, 2 H) 5.92 (d, J=3.08 Hz, 1 H) 6.18 (d, J=0.88 Hz, 1 H) 6.84 (t, J=5.83 Hz, 1 H) 7.17 (d, J=3.08 Hz, 1 H)		
129		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.38 (t, J=6.9 Hz, 3 H), 3.15 (s, 3 H), 3.27 - 3.33 (m, 2 H), 3.47 (q, J=5.6 Hz, 2 H), 4.10 (q, J=7.0 Hz, 2 H), 5.29 (s, 2 6 H), 5.37 (s, 2 H), 5.72 (t, J=5.4 Hz, 1 H), 5.97 (d, J=2.9 Hz, 1 H), 6.59 (dd, J=7.5, 1.5 Hz, 1 H), 6.79 - 6.85 (m, 1 H), 7.02 (d, J=7.7 Hz, 1 H), 7.20 - 7.27 (m, 2 H)	E,1.52	342
130		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.71 - 0.78 (m, 3 H), 0.96 - 1.08 (m, 2 H), 1.28 - 1.38 (m, 2 H), 3.22 - 3.29 (m, 2 H), 5.28 (s, 2 H), 5.59 (s, 2 H), 5.77 6 (t, J=5.4 Hz, 1 H), 6.03 (d, J=3.1 Hz, 1 H), 6.35 (d, J=7.7 Hz, 1 H), 7.19 - 7.25 (m, 1 H), 7.28 (d, J=3.1 Hz, 1 H), 7.35 - 7.40 (m, 2 H) SLAST_1343_1.1.esp	E,1.84	380
131		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.29 - 2.33 (m, 3 H) 3.71 (s, 3 H) 4.59 (d, J=5.72 Hz, 2 H) 5.36 (s, 2 H) 5.44 (s, 2 H) 5.82 - 5.85 (m, 1 H) 6.01 (d, J=3.08 Hz, 1 H) 6.50 (d,	D,0.74	366

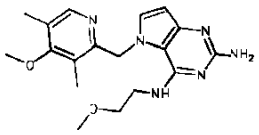
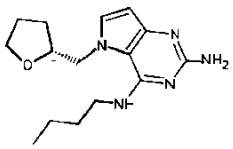
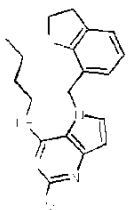
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=7.26 Hz, 1 H) 6.70 (d, J=8.14 Hz, 1 H) 6.90 (t, J=5.72 Hz, 1 H) 7.36 (d, J=2.86 Hz, 1 H) 7.62 (dd, J=8.25, 7.37 Hz, 1 H)		
132		^{1}H NMR (300 MHz, chloroform-*d*) δ ppm 3.30 (s, 3 H) 3.47 - 3.60 (m, 2 H) 3.68 (m, J=5.10, 5.10, 5.10 Hz, 2 H) 5.37 (s, 2 H) 5.77 (br. s., 2 H) 6.20 (d, J=3.02 Hz, 1 H) 7.02 (d, J=3.16 Hz, 1 H) 7.23 - 7.31 (m, 1 H) 7.85 (br. s., 1 H) 8.78 (d, J=1.79 Hz, 1 H)	A,1.61	305
133		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.79 (t, J=7.3 Hz, 3 H), 1.09 (dq, J=15.0, 7.4 Hz, 2H), 1.30 - 1.35 (m, 2 H), 1.38 (t, J=6.9 Hz, 3 H), 3.24 - 3.29 (m, 2 6 H), 4.10 (q, J=6.9 Hz, 2 H), 5.22 (s, 2 H), 5.39 (s, 2 H), 5.50 (t, J=5.4 Hz, 1 H), 5.96 (d, J=2.9 Hz, 1 H), 6.48 (dd, J=7.5, 1.3 Hz, 1 H), 6.77 - 6.84 (m, 1 H), 7.03 (d, J=7.9 Hz, 1 H), 7.20 - 7.26 (m, 2 H)	D,1.0	340

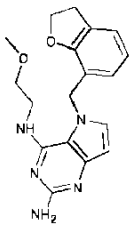
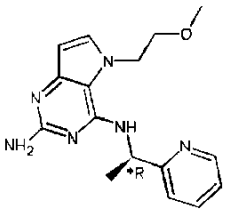
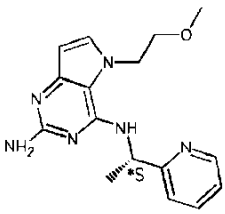
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
134		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.91 (t, J=7.4 Hz, 3H), 1.29 - 1.39 (m, 2 H), 1.54 - 1.65 (m, 2 H), 1.84 - 1.94 (m, 1 H), 2.17 - 2.30 (m, 1 H), 3.37 - 63.44 (m, 2 H), 3.70 - 3.79 (m, 2 H), 3.82 (s, 3 H), 3.83 - 3.90 (m, 2 H), 4.97 - 5.04 (m, 1 H), 5.22 (s, 2 H), 5.30 (s, 2 H), 5.93 (d, J=3.1 Hz, 1 H), 7.03 (s, 1 H), 7.40 (d, J=2.9 Hz, 1 H), 7.47 (t, J=5.1 Hz, 1 H), 8.10 (s, 1 H)	D,0.82	413
135		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.91 (t, J=7.4 Hz, 3 H), 1.29 - 1.39 (m, 2 H), 1.54 - 1.65 (m, 2 H), 1.84 - 1.94 (m, 1 H), 2.17 - 2.30 (m, 1 H), 3.37 - 63.44 (m, 2 H), 3.70 - 3.79 (m, 2 H), 3.82 (s, 3 H), 3.83 - 3.90 (m, 2 H), 4.97 - 5.04 (m, 1 H), 5.22 (s, 2 H), 5.30 (s, 2 H), 5.93 (d, J=3.1 Hz, 1 H), 7.03 (s, 1 H), 7.40 (d, J=2.9 Hz, 1 H), 7.47 (t, J=5.1 Hz, 1 H), 8.10 (s, 1 H)	D,0.64	415
136		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 4.94 (d, J=5.9 Hz, 2 H), 5.37 (s, 2 H), 5.53 (s, 2 H), 6.01 (d, J=3.1 Hz, 1 H), 7.15 (d, J=7.7 Hz, 1 H), 7.31 (ddd, J=7.7, 64.8, 1.1 Hz, 1 H), 7.43 (d, J=3.1 Hz, 1H), 7.52 (d, J=3.3 Hz, 1 H), 7.71 (d, J=3.3 Hz, 1 H), 7.78 (td, J=7.7, 2.0 Hz, 1 H), 8.10 (t, J=5.8 Hz,	D,0.60	338

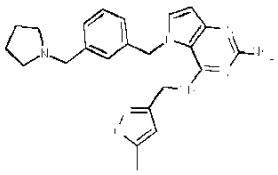
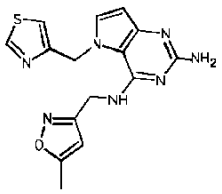
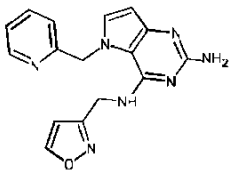
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		1 H), 8.42 - 8.46 (m, 1 H)		
137		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.05 (d, J=6.2 Hz, 6 H), 3.46 - 3.59 (m, 5 H), 5.27 (s, 2 H), 5.44 (s, 2H), 5.96 (d, J=3.1 Hz, 1 H), 7.17 - 7.25 (m, 2 H), 67.31 - 7.39 (m, 2 H), 7.77 - 7.85 (m, 1 H), 8.51 - 8.59 (m, 1 H)	D,0.73	327
138		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.78 (quin, J=6.6 Hz, 2 H), 3.20 (s, 3 H), 3.28 - 3.32 (m, 2 H), 3.37 - 3.44 (m, 2 H), 5.25 (s, 2 H), 5.47 (s, 2 H), 5.96 (d, 6 J=2.9 Hz, 1 H), 7.01 (t, J=5.2 Hz, 1 H), 7.16 (d, J=7.9 Hz, 1H), 7.32 - 7.39 (m, 2 H), 7.81 (td, J=7.7, 1.8 Hz, 1 H), 8.53 - 8.56 (m, 1 H)	D,0.63	313
139		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.47 - 1.58 (m, 1H), 1.72 - 1.88 (m, 3 H), 3.39 - 3.54 (m, 2 H), 3.58 - 3.66 (m, 1 H), 3.70 - 3.78 (m, 1 H), 4.00 (quin, 6 J=6.2 Hz, 1 H), 5.26 (s, 2 H), 5.38 - 5.50 (m, 2 H), 5.96 (d, J=2.9 Hz, 1 H), 7.24 (d, J=7.7 Hz, 1 H), 7.30 (t, J=5.4 Hz, 1 H), 7.35 (ddd, J=7.6, 5.0, 1.1 Hz, 1 H), 7.39 (d, J=3.1 Hz, 1 H), 7.82 (td, J=7.7, 1.8 Hz, 1 H), 8.55 (ddd, J=4.8, 1.5, 0.9 Hz, 1 H)	D,0.65	325
140		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm	D,0.66	313

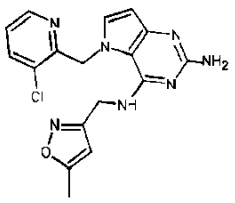
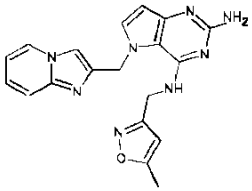
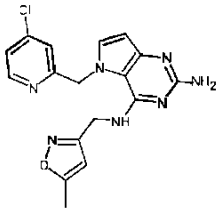
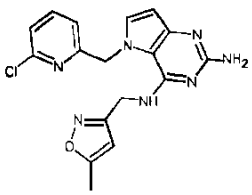
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		1.08 (t, J=7.0 Hz, 3 H), 3.43 (q, J=7.0 Hz, 2 H), 3.48 - 3.59 (m, 4 H), 5.27 (s, 2 H), 5.44 (s, 2 H), 5.96 (d, J=3.1 Hz, 16 H), 7.23 - 7.31 (m, 2 H), 7.35 (ddd, J=7.6, 5.0, 1.1 Hz, 1 H), 7.38 (d, J=3.1 Hz, 1 H), 7.81 (td, J=7.7, 1.8 Hz, 1 H), 8.53 - 8.57 (m, 1 H)		
141		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.87 (t, J=7.4 Hz, 3 H), 1.21 - 1.33 (m, 1 H), 1.33 - 1.45 (m, 1 H), 3.26 - 3.33 (m, 1 H), 3.45 (dt, J=13.1, 5.4 Hz, 1 H), 6 3.50 - 3.60 (m, 1 H), 4.81 (br. s., 1 H), 5.27 (s, 2 H), 5.47 (s, 2 H), 5.96 (d, J=3.1 Hz, 1H), 7.17 - 7.26 (m, 2 H), 7.34 (ddd, J=7.7, 4.8, 1.1 Hz, 1 H), 7.38 (d, J=3.1 Hz, 1 H), 7.81 (td, J=7.7, 1.8 Hz, 1 H), 8.52 - 8.56 (m, 1 H)	D,0.58	313
142		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 4.79 (d, J=5.7 Hz, 2H), 5.31 (s, 2 H), 5.47 (s, 2 H), 5.99 (d, J=2.9 Hz, 1 H), 7.14 (d, J=0.7 Hz, 1 H), 7.28 - 7.36 (m, 2 6 H), 7.42 (d, J=2.9 Hz, 1 H), 7.81 (td, J=7.7, 1.8 Hz, 1 H), 7.99 (d, J=0.9 Hz, 1 H), 8.06 (t, J=5.6 Hz, 1 H), 8.40 - 8.45 (m, 1 H)	D,0.57	322
143		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.23 - 2.32 (m, 3 H) 4.53 (d, J=5.94 Hz, 2 H) 5.40 (s, 2 H) 5.67 - 5.71 (m,	E,1.43	404

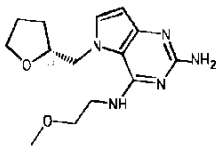
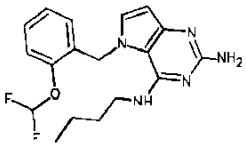
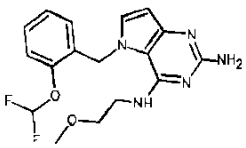
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		3 H) 6.07 (d, J=3.08 Hz, 1 H) 6.90 (d, J=7.92 Hz, 1 H) 6.96 (t, J=5.83 Hz, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 7.81 (d, J=7.70 Hz, 1 H) 8.01 (t, J=7.92 Hz, 1 H)		
144		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 - 2.35 (m, 3 H) 4.59 (d, J=5.72 Hz, 2 H) 5.36 (s, 2 H) 5.52 (s, 2 H) 5.89 (d, J=0.88 Hz, 1 H) 6.00 (d, J=3.08 Hz, 1 H) 7.11 (dd, J=8.69, 4.51 Hz, 1 H) 7.28 (t, J=5.83 Hz, 1 H) 7.39 (d, J=3.08 Hz, 1 H) 7.70 (td, J=8.80, 2.86 Hz, 1 H) 8.42 (d, J=2.86 Hz, 1 H)	E,1.49	354
145		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (d, J=0.66 Hz, 3 H) 4.59 (d, J=5.72 Hz, 2 H) 5.38 (s, 2 H) 5.64 (s, 2 H) 5.84 (d, J=0.66 Hz, 1 H) 6.02 (d, J=3.08 Hz, 1 H) 7.29 (t, J=5.72 Hz, 1 H) 7.42 - 7.45 (m, 2 H) 7.69 - 7.72 (m, 1 H) 8.71 (d, J=5.06 Hz, 1 H)	D,0.79	404
146		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.93 (t, J=7.3 Hz, 3 H), 1.37 (dq, J=15.0, 7.3 Hz, 2H), 1.56 - 1.66 (m, 2 H), 2.21 (s, 3 H), 2.33 (s, 3 H), 3.36 - 3.42 (m, 6 3 H), 3.72 (s, 3 H), 5.21 (s, 2 H), 5.44 (s, 2 H), 5.92 (d, J=3.1 Hz, 1H), 7.30 (d, J=3.1 Hz, 1H), 7.85 (t, J=5.1 Hz, 1H), 8.21 (s, 1 H)	E,1.83	355

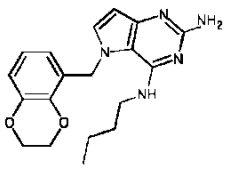
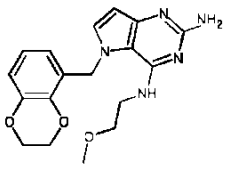
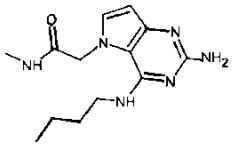
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
147		SLAST_1354_1.1.esp M07(s) ^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.21 (s, 3 H), 2.34 (s, 3 H), 3.28 (s, 3 H), 3.50 - 3.60 (m, 4 H), 3.72 (s, 3 H), 5.25 (s, 2 H), 5.42 (s, 2 H), 5.92 (d, J=3.1 6Hz, 1 H), 7.31 (d, J=2.9 Hz, 1 H), 8.14 (t, J=4.7 Hz, 1 H), 8.22 (s, 1 H) SLAST_1354_2.1.esp M04(m)	E,1.45	357
148		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.93 (t, J=7.4 Hz, 3 H), 1.38 (dq, J=14.9, 7.4 Hz, 2H), 1.47 - 1.67 (m, 4 H), 1.69 - 1.84 (m, 1 H), 1.85 - 1.99 (m, 1 H), 6 3.34 - 3.42 (m, 2 H), 3.56 - 3.74 (m, 2 H), 4.01 - 4.11 (m, 1 H), 4.17 (dd, J=15.2, 6.2 Hz, 1 H), 4.37 (dd, J=15.2, 2.9 Hz, 1H), 5.26 (s, 2H), 5.91 (d, J=3.1 Hz, 1 H), 6.51 (t, J=5.2 Hz, 1 H), 7.14 (d, J=2.9 Hz, 1 H)	D,0.81	290
149		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.83 (t, J=7.4 Hz, 3 H), 1.17 (dq, J=14.9, 7.4 Hz, 2H), 1.42 (quin, J=7.3 Hz, 2 H), 3.21 (t, J=8.7 Hz, 2 H), 3.29 - 3.35 6 (m, 2 H), 4.60 (t, J=8.7 Hz, 2 H), 5.23 (s, 2 H), 5.34 (s, 2 H), 5.71 (t, J=5.3 Hz, 1 H), 5.95 (d, J=2.9 Hz, 1 H), 6.46 (d, J=7.7 Hz, 1 H), 6.72 (t, J=7.6 Hz, 1 H), 7.14 (d,	E,1.72	338

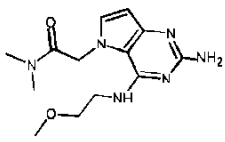
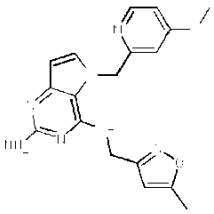
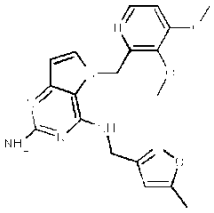
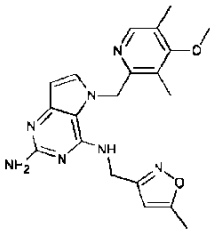
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=6.6 Hz, 1 H), 7.23 (d, J=3.1 Hz, 1 H)		
150		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.16 - 3.24 (m, 5 H), 3.40 (t, J=5.8 Hz, 2 H), 3.52 (q, J=5.6 Hz, 2 H), 4.60 (t, J=8.7 Hz, 2 H), 5.28 (s, 2 H), 5.31 (s, 2 6 H), 5.92 (t, J=5.5 Hz, 1 H), 5.95 (d, J=2.9 Hz, 1 H), 6.58 (d, J=7.5 Hz, 1 H), 6.73 (t, J=7.5 Hz, 1 H), 7.14 (d, J=6.6 Hz, 1 H), 7.22 (d, J=2.9 Hz, 1 H)	E,1.4	340
151		^{1}H NMR (400 MHz, chloroform-*d*) δ ppm 1.58 (d, J=6.8 Hz, 3 H), 3.29 (s, 3 H), 3.70 - 3.79 (m, 2 H), 4.32 - 4.41 (m, 2 H), 4.50 (br. s., 2 H), 5.49 (t, J=6.8 Hz, 1 H), 6.17 (d, J=3.1 Hz, 1 H), 6.91 (d, J=3.1 Hz, 1 H), 7.14 (ddd, J=7.5, 4.8, 1.1 Hz, 2 H), 7.33 (d, J=7.7 Hz, 1 H), 7.61 (td, J=7.6, 1.8 Hz, 1 H), 8.50 - 8.60 (m, 1 H)	E,1.2	313
152		^{1}H NMR (400 MHz, chloroform-*d*) δ ppm 1.59 (d, J=6.8 Hz, 3 H), 3.31 (s, 3 H), 3.71 - 3.82 (m, 2 H), 4.39 (d, J=5.1 Hz, 2 H), 4.42 (br. s., 2 H), 5.50 (t, J=6.7 Hz, 1 H), 6.18 (d, J=2.9 Hz, 1 H), 6.93 (d, J=3.1 Hz, 1 H), 7.10 - 7.20 (m, 2 H), 7.35 (d, J=7.9 Hz, 1 H), 7.63 (td, J=7.6, 1.8 Hz, 1 H), 8.53 - 8.60 (m, 1 H)	E,1.44	313

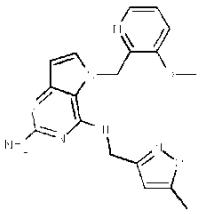
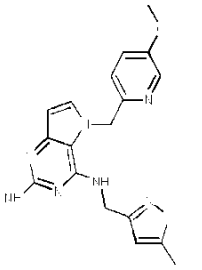
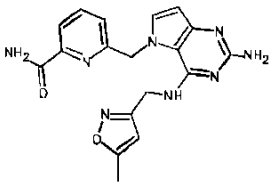
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
153		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.63 (dt, J=6.66, 3.16 Hz, 4 H) 2.27 (s, 3 H) 2.28 - 2.34 (m, 4 H) 3.44 (s, 2 H) 4.54 (d, J=5.72 Hz, 2 H) 5.32 (s, 2 H) 5.48 (s, 2 H) 5.56 (d, J=0.88 Hz, 1 H) 6.01 (d, J=2.86 Hz, 1 H) 6.61 (t, J=5.94 Hz, 1 H) 6.76 (d, J=7.26 Hz, 1 H) 6.98 (s, 1 H) 7.12 - 7.20 (m, 2 H) 7.35 (d, J=2.86 Hz, 1 H)	E,1.07	418
154		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.34 (s, 3 H) 4.62 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.55 (s, 2 H) 5.97 (d, J=3.08 Hz, 1 H) 6.02 (s, 1 H) 7.28 (t, J=5.83 Hz, 1 H) 7.32 (d, J=2.86 Hz, 1 H) 7.40 (d, J=1.98 Hz, 1 H) 9.04 (d, J=1.98 Hz, 1 H)	E,1.14	342
155		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 4.70 (d, J=5.72 Hz, 2 H) 5.37 (s, 2 H) 5.48 (s, 2 H) 5.98 (d, J=3.08 Hz, 1 H) 6.38 (d, J=1.76 Hz, 1 H) 7.20 (d, J=7.70 Hz, 1 H) 7.32 (ddd, J=7.54, 5.01, 1.10 Hz, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 7.79 (td, J=7.70, 1.76 Hz, 1 H) 7.87 (t, J=5.61 Hz, 1 H) 8.39 - 8.42 (m, 1 H) 8.77 (d, J=1.76 Hz, 1 H)	E,1.34	322
156		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.34 (d, J=0.66 Hz, 3 H) 4.62 (d, J=5.50 Hz, 2 H) 5.36 (s, 2 H) 5.62 (s,	D,0.74	370

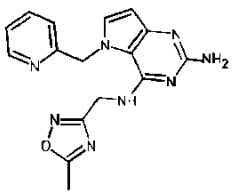
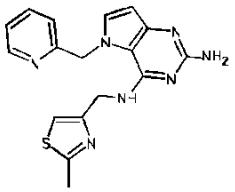
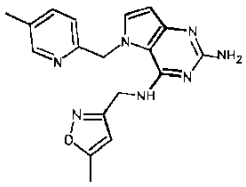
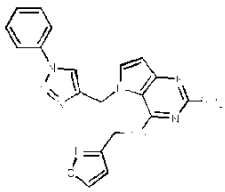
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		2 H) 5.97 (d, J=3.08 Hz, 1 H) 6.03 (d, J=0.66 Hz, 1 H) 7.29 (d, J=3.08 Hz, 1 H) 7.42 (dd, J=8.14, 4.84 Hz, 1 H) 7.68 (t, J=5.72 Hz, 1 H) 8.00 (dd, J=8.14, 1.54 Hz, 1 H) 8.32 (dd, J=4.73, 1.43 Hz, 1 H)		
157		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.27 (s, 3 H) 4.68 (d, J=5.72 Hz, 2 H) 5.33 (s, 2 H) 5.48 (s, 2 H) 5.94 (d, J=2.86 Hz, 1 H) 6.01 (s, 1 H) 6.89 (td, J=6.77, 1.21 Hz, 1 H) 7.26 (ddd, J=9.08, 6.66, 1.21 Hz, 1 H) 7.35 - 7.38 (m, 2 H) 7.79 (s, 1 H) 8.30 (t, J=5.72 Hz, 1 H) 8.51 (dt, J=6.82, 1.10 Hz, 1 H)	D,0.65	375
158		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.33 (s, 3 H) 4.60 (d, J=5.72 Hz, 2 H) 5.38 (s, 2 H) 5.52 (s, 2 H) 5.89 (s, 1 H) 6.01 (d, J=3.08 Hz, 1 H) 7.18 - 7.22 (m, 1 H) 7.39 - 7.50 (m, 3 H) 8.41 (d, J=5.50 Hz, 1 H)	E,1.35	370
159		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (s, 3 H) 4.56 (d, J=5.72 Hz, 2 H) 5.39 (s, 2 H) 5.56 (s, 2 H) 5.75 (s, 1 H) 6.05 (d, J=3.08 Hz, 1 H) 6.68 (d, J=7.48 Hz, 1 H) 6.99 (t, J=5.83 Hz, 1 H) 7.38 (d, J=2.86 Hz, 1 H) 7.41 (d, J=7.92 Hz, 1 H) 7.78 (t, J=7.81 Hz, 1 H)	D,0.73	370

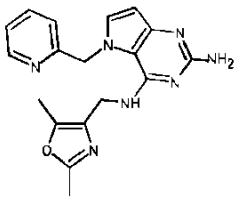
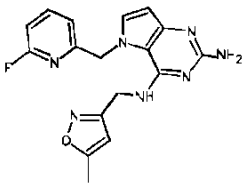
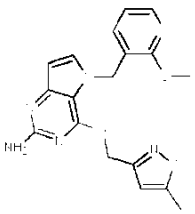
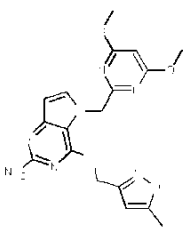
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
160		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.46 - 1.70 (m, 2 H), 1.70 - 1.83 (m, 1 H), 1.87 - 1.99 (m, 1 H), 3.29 (s, 3 H), 3.48 - 3.56 (m, 3 H), 3.56 - 3.65 (m, 2 H), 6 3.68 - 3.77 (m, 1 H), 4.05 (qd, J=6.7, 2.8 Hz, 1 H), 4.14 (dd, J=15.1, 6.5 Hz, 1 H), 4.35 (dd, J=15.1, 2.8 Hz, 1 H), 5.23 (s, 2 H), 5.92 (d, J=2.9 Hz, 1 H), 6.61 (t, J=4.8 Hz, 1 H), 7.15 (d, J=3.1 Hz, 1 H)	D,0.58	292
161		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.76 (t, J=7.3 Hz, 3 H), 1.05 (dq, J=15.0, 7.3 Hz, 2H), 1.30 - 1.40 (m, 2 H), 3.24 - 3.30 (m, 2 H), 5.26 (s, 2 H), 5.51 (s, 6.2 H), 5.70 (t, J=5.5 Hz, 1 H), 6.00 (d, J=2.9 Hz, 1 H), 6.36 - 6.41 (m, 1 H), 7.06 - 7.12 (m, 1 H), 7.20 - 7.25 (m, 2 H), 7.29 (t, J=73.8 Hz, 1 H), 7.30 - 7.36 (m, 1 H)	D,0.94	362
162		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.13 (s, 3 H), 3.32 - 3.35 (m, 2 H), 3.46 (q, J=5.6 Hz, 2 H), 5.32 (s, 2 H), 5.48 (s, 2 H), 5.80 (t, J=5.4 Hz, 1 H), 6.01 (d, 6 J=3.1 Hz, 1 H), 6.51 (dd, J=7.7, 1.3 Hz, 1 H), 7.08 - 7.14 (m, 1 H), 7.20 - 7.25 (m, 2 H), 7.28 (t, J=73.8 Hz, 1 H), 7.31-7.36 (m, 1 H)	D,0.78	364
163		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.80 (t, J=7.3 Hz, 3 H), 1.12 (dq,	D,0.9	354

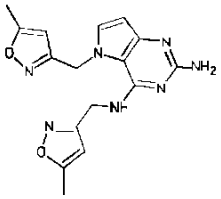
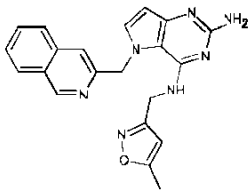
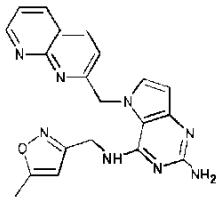
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=15.0, 7.4 Hz, 2 H), 1.34 - 1.44 (m, 2 H), 3.26 - 3.31 (m, 2 H), 4.23 - 4.30 (m, 2 H), 6 4.30 - 4.37 (m, 2 H), 5.24 (s, 2 H), 5.38 (s, 2 H), 5.59 (t, J=5.4 Hz, 1 H), 5.96 (d, J=3.1 Hz, 1 H), 6.02 (dd, J=7.6, 1.4 Hz, 1 H), 6.68 (t, J=7.8 Hz, 1 H), 6.77 (dd, J=8.1, 1.5 Hz, 1 H), 7.20 (d, J=2.9 Hz, 1 H)		
164		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.16 (s, 3 H), 3.35 - 3.40 (m, 2 H), 3.51 (q, J=5.6 Hz, 2 H), 4.24 - 4.31 (m, 2 H), 4.31 - 4.37 (m, 2 H), 5.35 (s, 2 H), 65.37 (br. s., 2 H), 5.78 (t, J=5.4 Hz, 1 H), 5.97 (d, J=3.1 Hz, 1 H), 6.16 (dd, J=7.7, 1.5 Hz, 1 H), 6.70 (t, J=7.8 Hz, 1 H), 6.76 - 6.81 (m, 1 H), 7.22 (d, J=2.9 Hz, 1H)	D,0.74	356
165		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.16 (s, 3 H), 3.35 - 3.40 (m, 2 H), 3.51 (q, J=5.6 Hz, 2 H), 4.24 - 4.31 (m, 2 H), 4.31 - 4.37 (m, 2 H), 5.35 (s, 2 H), 65.37 (br. s., 2 H), 5.78 (t, J=5.4 Hz, 1 H), 5.97 (d, J=3.1 Hz, 1 H), 6.16 (dd, J=7.7, 1.5 Hz, 1 H), 6.70 (t, J=7.8 Hz, 1 H), 6.76 - 6.81 (m, 1 H), 7.22 (d, J=2.9 Hz, 1H)	D,0.6	277
166		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.92 (t, J=7.4 Hz, 3 H), 1.37 (dq,	D,0.42	293

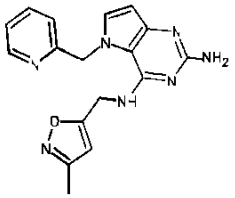
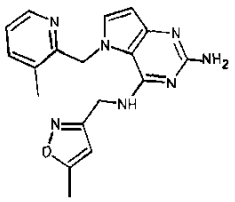
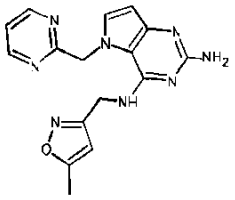
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=15.0, 7.3 Hz, 2H), 1.51 - 1.62 (m, 2 H), 2.63 (d, J=4.6 Hz, 3 H), 3.33 - 3.41 (m, 2 6 H), 4.74 (s, 2 H), 5.40 (br. s., 2 H), 5.94 (d, J=2.9 Hz, 1 H), 6.93 (t, J=5.2 Hz, 1 H), 7.11 (d, J=3.1Hz, 1 H), 8.31 (d, J=4.4 Hz, 1 H)		
167		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.34 (s, 3 H) 3.78 (s, 3 H) 4.63 (d, J=5.50 Hz, 2 H) 5.33 - 5.39 (m, 4 H) 5.97 (d, J=3.08 Hz, 1 H) 6.02 (s, 1 H) 6.90 (d, J=2.42 Hz, 1 H) 6.93 (dd, J=5.72, 2.42 Hz, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 8.16 (t, J=5.61 Hz, 1 H) 8.22 (d, J=5.94 Hz, 1 H)	D,0.7	366
168		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.36 (s, 3 H) 3.79 (s, 3 H) 3.88 (s, 3 H) 4.66 (d, J=5.50 Hz, 2 H) 5.33 (s, 2 H) 5.36 (s, 2 H) 5.94 (d, J=2.86 Hz, 1 H) 6.18 (s, 1 H) 7.14 (d, J=5.72 Hz, 1 H) 7.23 (d, J=3.08 Hz, 1 H) 8.00 (d, J=5.50 Hz, 1 H) 8.50 (t, J=5.50 Hz, 1 H)	E,1.62	396
169		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.17 (s, 3 H) 2.31 (s, 3 H) 2.35 (s, 3 H) 3.71 (s, 3 H) 4.63 (d, J=5.50 Hz, 2 H) 5.32 (s, 2 H) 5.44 (s, 2 H) 5.94 (d, J=3.08 Hz, 1 H) 6.10 (s, 1 H) 7.33 (d, J=2.86 Hz, 1 H) 8.01 (s, 1 H) 8.49 (t,	E,1.76	394

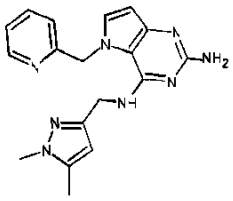
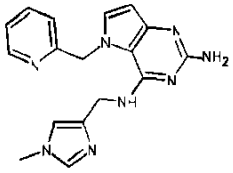
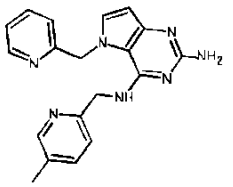
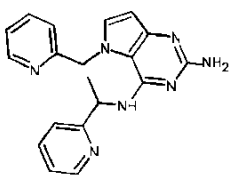
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=5.50 Hz, 1 H)		
170		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.35 (s, 3 H) 3.88 (s, 3 H) 4.66 (d, J=5.50 Hz, 2 H) 5.33 (s, 2 H) 5.40 (s, 2 H) 5.93 (d, J=2.86 Hz, 1 H) 6.13 (s, 1 H) 7.23 (d, J=3.08 Hz, 1 H) 7.38 (dd, J=8.36, 4.62 Hz, 1 H) 7.52 (d, J=7.92 Hz, 1 H) 7.92 (dd, J=4.62, 1.10 Hz, 1 H) 8.19 (t, J=5.50 Hz, 1 H)	E,1.59	366
171		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.33 (s, 3 H) 3.79 (s, 3 H) 4.63 (d, J=5.50 Hz, 2 H) 5.34 (s, 2 H) 5.40 (s, 2 H) 5.96 (d, J=2.86 Hz, 1 H) 5.98 (d, J=0.88 Hz, 1 H) 7.20 (d, J=8.58 Hz, 1 H) 7.37 - 7.41 (m, 2 H) 7.79 (t, J=5.72 Hz, 1 H) 8.09 (d, J=2.64 Hz, 1 H)	E,1.53	366
172		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.27 (s, 3 H) 4.56 (d, J=5.72 Hz, 2 H) 5.35 (s, 2 H) 5.59 - 5.64 (m, 3 H) 6.04 (d, J=3.08 Hz, 1 H) 6.84 (t, J=5.83 Hz, 1 H) 7.03 (dd, J=6.05, 2.75 Hz, 1 H) 7.45 (d, J=2.86 Hz, 1 H) 7.65 (br. s., 1 H) 7.80 (br. s., 1 H) 7.86 - 7.92 (m, 2 H)	E,1.1	379
173		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.55 (s, 3 H) 4.76 (d, J=5.50 Hz, 2 H) 5.30 (s, 2 H) 5.46 (s, 2 H) 5.98 (d,	E,1.34	337

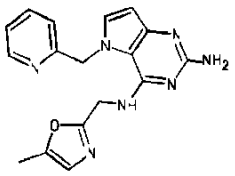
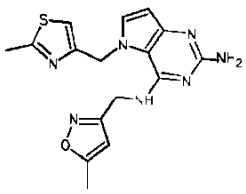
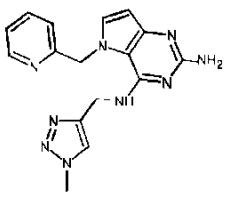
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=2.86 Hz, 1 H) 7.31 - 7.36 (m, 2 H) 7.42 (d, J=3.08 Hz, 1 H) 7.81 (td, J=7.70, 1.76 Hz, 1 H) 8.06 (t, J=5.61 Hz, 1 H) 8.44 - 8.47 (m, 1 H)		
174		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.63 (s, 3 H) 4.67 (d, J=5.28 Hz, 2 H) 5.32 (s, 2 H) 5.49 (s, 2 H) 5.98 (d, J=2.86 Hz, 1 H) 7.02 (s, 1 H) 7.23 (d, J=7.70 Hz, 1 H) 7.33 (dd, J=6.93, 5.17 Hz, 1 H) 7.40 (d, J=3.08 Hz, 1 H) 7.75 - 7.83 (m, 2 H) 8.43 (d, J=4.40 Hz, 1 H)	D,0.66	352
175		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.25 (s, 3 H) 2.34 (s, 3 H) 4.62 (d, J=5.50 Hz, 2 H) 5.34 (s, 2 H) 5.42 (s, 2 H) 5.96 - 5.99 (m, 2 H) 7.12 (d, J=7.92 Hz, 1 H) 7.39 (d, J=2.86 Hz, 1 H) 7.60 (dd, J=8.03, 2.09 Hz, 1 H) 7.84 (t, J=5.61 Hz, 1 H) 8.22 - 8.25 (m, 1 H)	D,0.72	350
176		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.22 (s, 3 H) 4.67 (d, J=5.72 Hz, 2 H) 5.35 (s, 2 H) 5.63 (s, 2 H) 5.98 (d, J=3.08 Hz, 1 H) 6.07 - 6.09 (m, 1 H) 7.07 (t, J=5.83 Hz, 1 H) 7.34 (d, J=3.08 Hz, 1 H) 7.46 - 7.51 (m, 1 H) 7.55 - 7.61 (m, 2 H) 7.79 - 7.84 (m, 2H) 8.57 (s, 1 H)	E,1.35	402

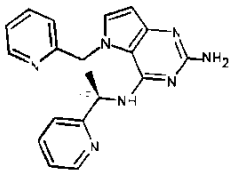
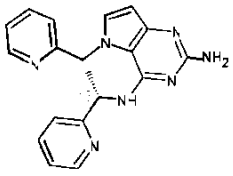
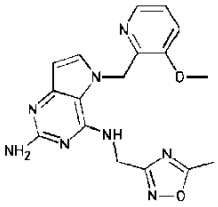
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
177		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.25 (s, 3 H) 2.32 (s, 3 H) 4.37 (d, J=5.06 Hz, 2 H) 5.26 (s, 2 H) 5.40 (s, 2 H) 5.95 (d, J=3.08 Hz, 1 H) 7.31 - 7.37 (m, 2 H) 7.39 (d, J=3.08 Hz, 1 H) 7.77 - 7.82 (m, 2 H) 8.45 - 8.48 (m, 1 H)	E,1.23	350
178		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.30 (s, 3 H) 4.56 (d, J=5.72 Hz, 2 H) 5.38 (s, 2 H) 5.54 (s, 2 H) 5.75 - 5.80 (m, 1 H) 6.04 (d, J=2.86 Hz, 1 H) 6.66 (dd, J=7.37, 2.31 Hz, 1 H) 6.87 (t, J=5.83 Hz, 1 H) 7.06 (dd, J=8.14, 2.20 Hz, 1 H) 7.36 (d, J=2.86 Hz, 1 H) 7.85 - 7.92 (m, 1 H)	F,4	354
179		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.30 (s, 3 H) 3.90 (s, 3 H) 4.53 (d, J=5.72 Hz, 2 H) 5.38 (s, 2 H) 5.42 (s, 2 H) 5.72 (s, 1 H) 6.03 (d, J=3.08 Hz, 1 H) 6.60 - 6.65 (m, 2 H) 6.84 (dd, J=7.26, 5.06 Hz, 1 H) 7.27 (d, J=2.86 Hz, 1 H) 8.05 (dd, J=4.95, 1.65 Hz, 1 H)	E,1.27	366
180		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (s, 3 H) 3.69 (s, 6 H) 4.58 (d, J=5.50 Hz, 2 H) 5.33 (s, 2 H) 5.43 (s, 2 H) 5.92 (s, 1 H) 5.99 (d, J=2.64 Hz, 1 H) 6.11 (s, 1 H) 6.80 (t, J=5.61 Hz, 1 H) 7.27 (d, J=2.64 Hz, 1 H)	E,1.34	397

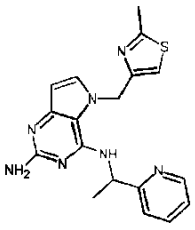
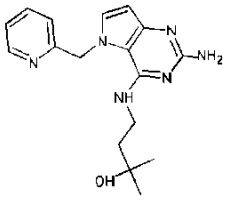
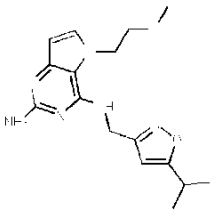
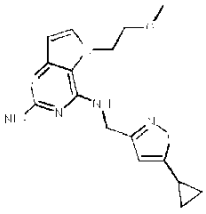
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
181		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.30 (s, 3 H) 2.34 (s, 3 H) 4.61 (d, J=5.72 Hz, 2 H) 5.38 (s, 2 H) 5.52 (s, 2 H) 5.83 (s, 1 H) 6.00 (d, J=3.08 Hz, 1 H) 6.04 (s, 1 H) 6.85 (t, J=5.72 Hz, 1 H) 7.29 (d, J=3.08 Hz, 1 H)	E,1.17	340
182		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.20 (s, 3 H) 4.63 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.64 (s, 2 H) 5.82 (s, 1 H) 6.01 (d, J=3.08 Hz, 1 H) 7.45 (d, J=3.08 Hz, 1 H) 7.58 (s, 1 H) 7.66 - 7.70 (m, 1 H) 7.75 - 7.80 (m, 2 H) 7.85 - 7.89 (m, 1 H) 8.13 (d, J=8.14 Hz, 1 H) 9.20 (s, 1 H)	E,1.47	386
183		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.07 (s, 1 H) 2.14 (s, 3 H) 4.57 (d, J=5.72 Hz, 2 H) 5.35 (s, 1 H) 5.77 - 5.82 (m, 3 H) 6.06 (d, J=2.86 Hz, 1 H) 7.18 (d, J=8.36 Hz, 1 H) 7.51 (d, J=2.86 Hz, 1 H) 7.56 (t, J=5.72 Hz, 1 H) 7.64 (dd, J=8.14, 4.18 Hz, 1 H) 8.45 (d, J=8.36 Hz, 2 H) 9.09 (dd, J=4.07, 1.65 Hz, 1 H)	E,1.03	387

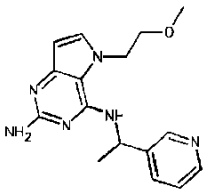
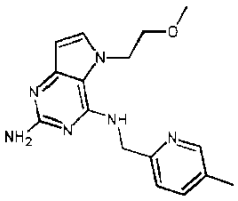
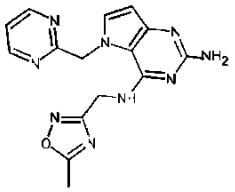
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
184		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.16 (s, 3 H) 4.71 (d, J=5.50 Hz, 2 H) 5.37 (s, 2 H) 5.50 (s, 2 H) 5.95 (s, 1 H) 5.99 (d, J=2.86 Hz, 1 H) 7.18 (d, J=7.70 Hz, 1 H) 7.35 (dd, J=6.82, 5.06 Hz, 1 H) 7.42 (d, J=3.08 Hz, 1 H) 7.81 (td, J=7.65, 1.65 Hz, 1 H) 7.88 (t, J=5.50 Hz, 1 H) 8.47 (d, J=4.40 Hz, 1 H)	E,1.11	336
185		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.34 (s, 3 H) 2.42 (s, 3 H) 4.63 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.49 (s, 2 H) 5.95 (d, J=2.86 Hz, 1 H) 6.07 (s, 1 H) 7.27 (dd, J=7.70, 4.84 Hz, 1 H) 7.32 (d, J=3.08 Hz, 1 H) 7.66 (d, J=7.48 Hz, 1 H) 8.17 (dd, J=4.73, 0.99 Hz, 1 H) 8.35 (t, J=5.61 Hz, 1 H)	E,1.35	350
186		^{1}H NMR (400 MHz, DMSO-d_6) 8 ppm 2.31 - 2.36 (m, 3 H) 4.58 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.62 (s, 2 H) 5.93 (d, J=0.66 Hz, 1 H) 5.97 (d, J=3.08 Hz, 1 H) 7.13 (t, J=5.61 Hz, 1 H) 7.30 (d, J=3.08 Hz, 1 H) 7.43 (t, J=4.95 Hz, 1 H) 8.72 (d, J=5.06 Hz, 2 H)	E,0.98	337
187		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.17 (s, 3 H) 3.65 (s, 3 H) 4.46 (d, J=5.28 Hz, 2 H) 5.29 (s, 2 H) 5.44 (s, 2 H) 5.76 (s, 1 H) 5.96 (d, J=3.08 Hz,	E,1.16	349

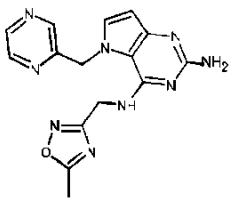
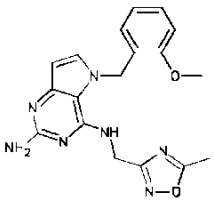
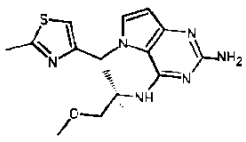
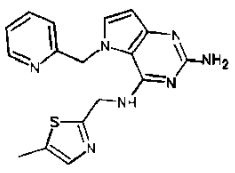
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		1 H) 7.20 (d, J=7.92 Hz, 1 H) 7.30 - 7.34 (m, 1 H) 7.38 (d, J=3.08 Hz, 1 H) 7.51 (t, J=5.28 Hz, 1 H) 7.78 (td, J=7.70, 1.76 Hz, 1 H) 8.39 (d, J=4.18 Hz, H)		
188		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.57 (s, 3 H) 4.45 (d, J=5.06 Hz, 2 H) 5.34 (br. s., 2 H) 5.44 (s, 2 H) 5.97 (d, J=2.86 Hz, 1 H) 6.76 (s, 1 H) 7.24 (d, J=7.70 Hz, 1 H) 7.33 (dd, J=7.04, 5.28 Hz, 1 H) 7.39 (d, J=2.86 Hz, 1 H) 7.47 (s, 1 H) 7.64 (t, J=4.84 Hz, 1 H) 7.77 - 7.83 (m, 1 H) 8.43 (d, J=4.40 Hz, 1 H)	E,0.92	335
189		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.25 (s, 3 H) 4.67 (d, J=5.50 Hz, 2 H) 5.26 (s, 2 H) 5.54 (s, 2 H) 5.99 (d, J=2.86 Hz, 1 H) 6.97 (d, J=7.92 Hz, 1 H) 7.13 (d, J=7.92 Hz, 1 H) 7.32 (ddd, J=6.93, 5.61, 0.88 Hz, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 7.43 (dd, J=8.14, 1.98 Hz, 1 H) 7.62 (t, J=5.61 Hz, 1 H) 7.79 (td, J=7.70, 1.76 Hz, 1 H) 8.30 - 8.32 (m, 1 H) 8.43 (dd, J=4.95, 0.77 Hz, 1 H)	E,1.27	346
190		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.52 (d, J=6.82 Hz, 3 H) 5.21 (s, 2 H) 5.43 (quin, J=6.82 Hz, 1 H) 5.48 - 5.60 (m, 2 H) 5.97 (d, J=2.86 Hz, 1	E,1.31	346

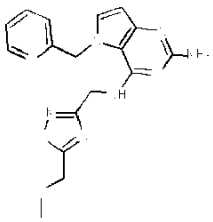
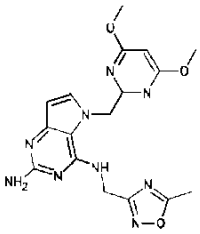
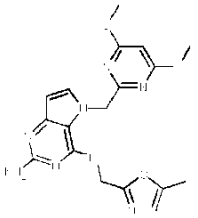
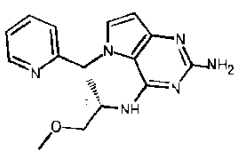
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 7.18 - 7.25 (m, 1 H) 7.27-7.39 (m, 3 H) 7.44 (d, J=2.86 Hz, 1 H) 7.63 - 7.69 (m, 1 H) 7.76 (d, J=7.26 Hz, 1 H) 7.80 - 7.88 (m, 1 H) 8.46 - 8.52 (m, 2 H)		
191		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.23 (d, J=1.10 Hz, 3 H) 4.72 (d, J=5.50 Hz, 2 H) 5.31 (s, 2 H) 5.47 (s, 2 H) 5.98 (d, J=2.86 Hz, 1 H) 6.73 (d, J=1.10 Hz, 1 H) 7.28 - 7.36 (m, 2 H) 7.42 (d, J=3.08 Hz, 1 H) 7.81 (td, J=7.70, 1.76 Hz, 1 H) 7.99 (t, J=5.50 Hz, 1 H) 8.40 - 8.44 (m, 1 H)	E,1.11	336
192		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.34 (d, J=0.7 Hz, 3 H), 2.53 (s, 3 H), 4.64 (d, J=5.7 Hz, 2 H), 5.35 (s, 2 H), 5.41 (s, 2 H), 5.95 (d, J=3.1 Hz, 1 H), 6 6.08 (d, J=0.7 Hz, 1 H), 7.27 (s, 1 H), 7.31 (d, J=3.1 Hz, 1 H), 7.57 (t, J=5.7 Hz, 1 H)	D,0.7	356
193		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.98 (s, 3 H) 4.62 (d, J=5.28 Hz, 2 H) 5.36 (s, 2 H) 5.44 (s, 2 H) 5.96 (d, J=2.86 Hz, 1 H) 7.25 (d, J=7.70 Hz, 1 H) 7.31 - 7.35 (m, 1 H) 7.38 (d, J=3.08 Hz, 1 H) 7.77 - 7.83 (m, 2 H) 7.89 (t, J=5.39 Hz, 1 H) 8.41 (dd, J=4.84, 0.66 Hz, 1 H)	E,0.93	336
194		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm	E,1.27	346

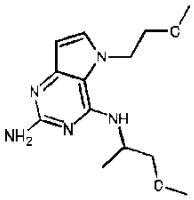
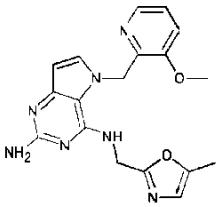
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		1.52 (d, J=7.04 Hz, 3 H) 5.21 (s, 2 H) 5.43 (quin, J=7.04 Hz, 1 H) 5.47 - 5.58 (m, 2 H) 5.97 (d, J=2.86 Hz, 1 H) 7.19 - 7.23 (m, 1 H) 7.28-7.38 (m, 3 H) 7.44 (d, J=3.08 Hz, 1 H) 7.66 (td, J=7.70, 1.76 Hz, 1 H) 7.76 (d, J=7.26 Hz, 1 H) 7.84 (td, J=7.70, 1.76 Hz, 1 H) 8.47 - 8.51 (m, 2 H).		
195		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.52 (d, J=6.82 Hz, 3 H) 5.21 (s, 2 H) 5.42 (quin, J=6.99 Hz, 1 H) 5.47 - 5.58 (m, 2 H) 5.97 (d, J=2.86 Hz, 1 H) 7.19 - 7.23 (m, 1 H) 7.28-7.38 (m, 3 H) 7.44 (d, J=3.08 Hz, 1 H) 7.66 (td, J=7.65, 1.65 Hz, 1 H) 7.77 (d, J=7.26 Hz, 1 H) 7.84 (td, J=7.59, 1.32 Hz, 1 H) 8.47 - 8.51 (m, 2 H)	E,1.27	346
196		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.56 (s, 3 H) 3.90 (s, 3 H) 4.81 (d, J=5.72 Hz, 2 H) 5.27 (s, 2 H) 5.40 (s, 2 H) 5.93 (d, J=3.08 Hz, 1 H) 7.25 (d, J=3.08 Hz, 1 H) 7.40 (dd, J=8.36, 4.84 Hz, 1 H) 7.52 - 7.56 (m, 1 H) 7.98 (dd, J=4.84, 1.10 Hz, 1 H) 8.41 (t, J=5.50 Hz, 1 H)	E,1.24	367
197		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.55 (d, J=7.0 Hz, 3 H), 2.58 (s, 3 H), 5.22 (s, 2 H), 5.41 - 5.49 (m, 1 H), 5.46 (d, J=6.8 Hz, 2 H), 5.94 (d,	E,1.37	366

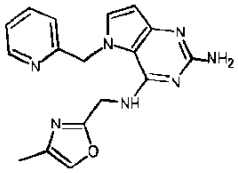
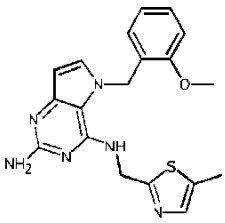
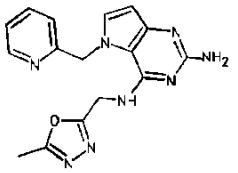
#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=3.1 Hz, 1 6 H), 7.23 (ddd, J=7.5, 4.8, 0.9 Hz, 1 H), 7.34 (d, J=3.1 Hz, 1 H), 7.38 (d, J=8.1 Hz, 1 H), 7.40 (s, 1 H), 7.47 (d, J=7.5 Hz, 1 H), 7.69 (td, J=7.7, 1.8 Hz, 1 H), 8.47 - 8.54 (m, 1 H)		
198		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.15 (s, 6 H) 1.69 - 1.74 (m, 2 H) 3.57 - 3.64 (m, 2 H) 5.62 (s, 2 H) 6.22 (d, J=2.86 Hz, 1 H) 7.34 - 7.48 (m, 4 H) 7.67 (d, J=3.08 Hz, 1 H) 7.91 (td, J=7.70, 1.76 Hz, 1 H) 8.56 - 8.59 (m, 1 H) 8.79 (t, J=4.80 Hz, 1 H) 12.51 (br. s., 1 H)	E,1.09	327
199		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.21 (d, J=7.04 Hz, 6 H) 2.97 - 3.10 (m, 1 H) 3.14 - 3.18 (m, 3 H) 3.56 (t, J=4.95 Hz, 2 H) 4.37 (t, J=5.06 Hz, 2 H) 4.65 (d, J=5.72 Hz, 2 H) 5.37 (s, 2 H) 5.93 (d, J=3.08 Hz, 1 H) 6.18 (s, 1 H) 6.86 (t, J=5.61 Hz, 1 H) 7.17 (d, J=3.08 Hz, 1 H)	D,0.74	331
200		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 0.78 - 0.90 (m, 2 H) 0.94 - 1.06 (m, 2 H) 2.03 - 2.17 (m, 1 H) 3.11 - 3.18 (m, 3 H) 3.55 (t, J=5.06 Hz, 2 H) 4.36 (t, J=5.06 Hz, 2 H) 4.61 (d, J=5.72 Hz, 2 H) 5.36 (s, 2 H) 5.92 (d, J=3.08 Hz, 1 H) 6.15 (s, 1 H) 6.84 (t, J=5.72	D,0.69	329

#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		Hz, 1 H) 7.17 (d, J=3.08 Hz, 1 H)		
201		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.54 (d, J=7.04 Hz, 3 H) 3.20 (s, 3 H) 3.63 (dt, J=5.94, 3.19 Hz, 2 H) 4.32 - 4.50 (m, 2 H) 5.23 (s, 2 H) 5.42 (t, J=7.04 Hz, 1 H) 5.92 (d, J=2.86 Hz, 1 H) 6.68 (d, J=7.04 Hz, 1 H) 7.18 (d, J=3.08 Hz, 1 H) 7.34 (ddd, J=7.87, 4.68, 0.66 Hz, 1 H) 7.84 (dt, J=7.92, 1.76 Hz, 1 H) 8.42 (dd, J=4.62, 1.54 Hz, 1 H) 8.68 (d, J=2.20 Hz, 1 H)	D,0.6	313
202		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.27 (s, 3 H) 3.17 - 3.19 (m, 3 H) 3.61 (t, J=5.06 Hz, 2 H) 4.40 (t, J=5.06 Hz, 2 H) 4.70 (d, J=5.50 Hz, 2 H) 5.23 (s, 2 H) 5.92 (d, J=3.08 Hz, 1 H) 6.96 (t, J=5.61 Hz, 1 H) 7.17 (d, J=2.86 Hz, 1 H) 7.27 (d, J=7.92 Hz, 1 H) 7.55 (dd, J=8.03, 1.65 Hz, 1 H) 8.26 - 8.42 (m, 1 H)	D,0.64	313
203		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.54 (s, 3 H) 4.72 (d, J=5.72 Hz, 2 H) 5.30 (s, 2 H) 5.59 (s, 2 H) 5.98 (d, J=3.08 Hz, 1 H) 7.30 - 7.35 (m, 2 H) 7.45 (t, J=4.95 Hz, 1 H) 8.75 (d, J=4.84 Hz, 2 H)	D,0.48	338
204		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.54 (s, 3 H) 4.71 (d, J=5.72 Hz, 2 H)	E,0.92	338

#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		5.33 (s, 2 H) 5.63 (s, 2 H) 6.02 (d, J=3.08 Hz, 1 H) 7.22 - 7.30 (m, 1 H) 7.41 (d, J=3.08 Hz, 1 H) 8.43 (s, 1 H) 8.52 (dd, J=2.42, 1.54 Hz, 1 H) 8.56 (d, J=2.42 Hz, 1 H)		
205		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.57 (s, 3 H) 3.80 (s, 3 H) 4.85 (d, J=5.72 Hz, 2 H) 5.56 (s, 2 H) 6.24 (d, J=2.86 Hz, 1 H) 6.84 - 6.90 (m, 2 H) 7.03 (d, J=8.14 Hz, 1 H) 7.28 - 7.34 (m, 1 H) 7.40 (d, J=2.86 Hz, 1 H) 7.49 (br. s., 2 H) 8.22 - 8.28 (m, 1 H) 12.89 (br. s., 1 H)	E,1.31	366
206		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.21 (d, J=6.6 Hz, 3 H), 2.65 (s, 3 H), 3.27 (s, 3 H), 3.32 - 3.35 (m, 1 H), 3.47 (dd, J=9.2, 5.1 Hz, 1 H), 4.35 - 4.55 (m, 6 1 H), 5.25 (s, 2 H), 5.36 (d, J=4.8 Hz, 2 H), 5.92 (d, J=3.1 Hz, 1 H), 6.76 (d, J=7.5 Hz, 1 H), 7.30 (d, J=3.1 Hz, 1 H), 7.40 (s, 1 H)	E,1.33	333
207		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.37 (s, 3 H) 4.97 (d, J=5.06 Hz, 2 H) 5.81 (s, 2 H) 6.31 (d, J=2.86 Hz, 1 H) 7.37 (d, J=7.70 Hz, 1 H) 7.43 (s, 1 H) 7.47 - 7.52 (m, 1 H) 7.57 (br. s., 1 H) 7.75 (d, J=3.08 Hz, 1 H) 7.97 (t, J=7.70 Hz, 1 H) 8.53 (d, J=4.62 Hz, 1	E,1.21	352

#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		H) 9.50 (br. s., 1 H) 12.88 (br. s., 1 H)		
208		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 3.37 (s, 3 H) 4.72 (s, 2 H) 4.82 (d, J=5.72 Hz, 2 H) 5.29 (s, 2 H) 5.46 (s, 2 H) 5.96 - 6.00 (m, 1 H) 7.29 - 7.37 (m, 2 H) 7.42 (d, J=3.08 Hz, 1 H) 7.81 (td, J=8.00, 1.50 Hz, 1 H) 8.12 (t, J=6.16 Hz, 1 H) 8.45 - 8.50 (m, 1 H)	E,1.15	367
209		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.49 (s, 3 H) 3.71 (s, 6 H) 4.70 (d, J=5.72 Hz, 2 H) 5.27 (s, 2 H) 5.41 (s, 2 H) 5.98 (d, J=2.86 Hz, 1 H) 6.11 (s, 1 H) 6.79 (t, J=5.61 Hz, 1 H) 7.28 (d, J=2.86 Hz, 1 H)	E,1.23	398
210		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.19 (d, J=1.10 Hz, 3 H) 3.68 (s, 6 H) 4.77 (d, J=5.72 Hz, 2 H) 5.68 (s, 2 H) 6.12 (s, 1 H) 6.28 (d, J=3.08 Hz, 1 H) 6.70 (d, J=1.32 Hz, 1 H) 7.45 (br. s., 1 H) 7.59 (d, J=3.08 Hz, 1 H) 8.12 (t, J=5.50 Hz, 1 H) 12.59 - 12.72 (m, 1 H)	E,1.27	397
211		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.17 (d, J=6.60 Hz, 3 H) 3.23 - 3.30 (m, 4 H) 3.43 (dd, J=9.02, 5.06 Hz, 1 H) 4.36 - 4.44 (m, 1 H) 5.27 (br. s., 2 H) 5.36 - 5.47 (m, 2 H) 5.95 (d,	E,1.21	313

#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
		J=2.64 Hz, 1 H) 7.19 (d, J=7.04 Hz, 1 H) 7.33 - 7.43 (m, 3 H) 7.85 (t, J=7.37 Hz, 1 H) 8.55 (d, J=3.96 Hz, 1 H)		
212		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 1.18 (d, J=6.60 Hz, 3 H) 3.25 (s, 3 H) 3.29 (s, 3 H) 3.32 - 3.35 (m, 1 H) 3.45 (dd, J=9.35, 5.17 Hz, 1 H) 3.61 (t, J=4.73 Hz, 2 H) 4.28 - 4.39 (m, 2 H) 4.44 (dt, J=12.71, 6.30 Hz, 1 H) 5.32 (br. s., 2 H) 5.93 (br. s., 1 H) 6.24 (d, J=7.70 Hz, 1 H) 7.16 (s, 1 H)	E,1.21	280
213		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.25 (d, J=1.10 Hz, 3 H) 3.89 (s, 3 H) 4.76 (d, J=5.50 Hz, 2 H) 5.29 (s, 2 H) 5.40 (s, 2 H) 5.93 (d, J=3.08 Hz, 1 H) 6.76 (d, J=1.10 Hz, 1 H) 7.25 (d, J=3.08 Hz, 1 H) 7.39 (dd, J=8.36, 4.62 Hz, 1 H) 7.53 (dd, J=8.36, 1.10 Hz, 1 H) 7.94 (dd, J=4.73, 1.21 Hz, 1 H) 8.36 (t, J=5.61 Hz, 1 H)	E,1.29	366

#	YAPI	^{1}H NMR	LC Yöntemi, Rt (dakika)	Bulunan LC-MS Kütlesi
214		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.05 (d, J=1.32 Hz, 3 H) 4.73 (d, J=5.72 Hz, 2 H) 5.31 (s, 2 H) 5.47 (s, 2 H) 5.98 (d, J=3.08 Hz, 1 H) 7.29 - 7.35 (m, 2 H) 7.42 (d, J=3.08 Hz, 1 H) 7.67 (d, J=1.10 Hz, 1 H) 7.81 (td, J=7.70, 1.76 Hz, 1 H) 7.99 (t, J=5.61 Hz, 1 H) 8.41 - 8.45 (m, 1 H)	E,1.17	336
215		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.31 (s, 3 H) 3.80 (s, 3 H) 4.77 (d, J=5.72 Hz, 2 H) 5.34 (s, 2 H) 5.43 (s, 2 H) 6.01 (d, J=2.86 Hz, 1 H) 6.46 - 6.50 (m, 1 H) 6.80 (t, J=7.26 Hz, 1 H) 6.90 (t, J=5.83 Hz, 1 H) 7.00 (d, J=8.14 Hz, 1 H) 7.20 - 7.27 (m, 2 H) 7.31 (d, J=1.10 Hz, 1 H)	E,1.42	381
216		^{1}H NMR (400 MHz, DMSO-d_6) δ ppm 2.43 (s, 3 H) 4.85 (d, J=5.72 Hz, 2 H) 5.33 (s, 2 H) 5.49 (s, 2 H) 5.99 (d, J=3.08 Hz, 1 H) 7.24 (d, J=7.70 Hz, 1 H) 7.34 (ddd, J=7.54, 4.90, 0.99 Hz, 1 H) 7.43 (d, J=3.08 Hz, 1 H) 7.80 (td, J=7.70, 1.76 Hz, 1 H) 8.03 (t, J=5.61 Hz, 1 H) 8.44 - 8.47 (m, 1 H)	E,0.98	337

Analitik Yöntemler.

Tüm bileşikler aşağıdaki LC-MS yöntemlerine LC-MS ile karakterize edilmiştir.

Yöntem A. 35°C'de tutulan bir Phenomenex Kinetex sütun (XB-C18, 50 x 4.6 mm I.D. 2.6µm) kullanılmıştır. MS algılama: API-ES pozitif iyonizasyon modu, kütle aralığı 100-1200. PDA algılama (λ=190-400 nm). Aşağıdaki gradiyent bir 2 µL enjeksiyonu ile kullanılmıştır:

Solvent A	H_2O + %0.1 Formik Asit
Solvent B	Asetonitril

Zaman (dakika)	%A	%B	Akış (mL/dakika)
0.0	95	5	3.0
4.2	5	95	3.0
4.9	5	95	3.0
5.0	95	5	3.0

Yöntem B. Tersine çevrilmiş faz UPLC (Ultra Performans Sıvı Kromatografisi) 0.8 ml/dakika akış oranına sahip bir köprülü etilsiloksan/silika hibrit (BEH) C18 sütun (1.7 µm, 2.1 x 50 mm; Su Berraklığı) üstünde gerçekleştirilmiştir. Bir gradiyent durumunu 1.3 dakikada %95 A ve %5 B ila %5 A ve %95 B arasında çalıştırmak ve 0.7 dakika tutmak üzere iki mobil faz (H_2O/asetonitril 95/5; mobil faz B: asetonitril içinde 10 mM amonyum asetat) kullanılmıştır. 0.75 µl'lik bir enjeksiyon hacmi kullanılmıştır. Koni voltajı pozitif iyonizasyon modunda 30 V ve negatif iyonizasyon modunda 30 V düzeyindeydi.

Yöntem C. Analizler bir Waters XTerra C18 sütununda (100 x 4.6 mm I.D. 3.5 µm partikül) 40 °C'de, 1.6 mL/dakikalık bir akış oranı ile gerçekleştirilmiştir. Bir gradiyent elüsyonu aşağıdaki gibi gerçekleştirilmiştir: Su/Asetonitril 90:10 içindeki %100'lük bir amonyum asetat solüsyonundan (25 mM) bir Asetonitril/Metanol 50:50 karışımına 7.5 dakikada, elde edilen bileşimden %100 Asetonitrile 1.0 dakikada; %100 Asetonitril 1.5 dakikada; Su/Asetonitril 90:10 (25mM) içindeki %100 Asetonitrilden bir amonyum asetat solüsyonunun (25 mM) %100 ila %100'üne 3.0 dakikada. Standart enjeksiyon hacmi 3 µL'ydi. Edinim aralıkları UV'ye yönelik 200-400 nm olarak ayarlanmıştır.

Yöntem D. LC ölçümü ikili pompa, bir örnek düzenleyici, bir sütun ısıtıcı (55 °C'ye ayarlı), bir diyot dizi dedektörü (DAD) ve aşağıda ilgili yöntemlerde belirtilen gibi bir sütun içeren bir Acquity UPLC (Waters) sistemi kullanılarak yapılmıştır. Sütundan akış bir MS spektrometreye ayrılmıştır. MS dedektörü bir elektrosprey iyonizasyon kaynağı ile konfigüre edilmiştir. Kütle spektraları 0.02 saniyelik bir bekletme süresi kullanılarak 100'den 1000'e 0.18 saniyede taranarak elde edilmiştir. Kapiler iğne voltajı 3.5 kV'tı ve kaynak sıcaklığı 140 °C'de tutulmuştur. Nebülizör gaz olarak nitrogen kullanılmıştır. Tersine çevrilmiş faz UPLC (Ultra Performans Sıvı Kromatografisi) bir köprülü etilsiloksan/silika hibrit (BEH) C18 sütunda (1.7 µm, 2.1 x 50 mm; Su Berraklığı) 0.8 mL/dakika akış oranı ile gerçekleştirilmiştir. Bir gradiyent durumunu 1.3 dakikada %95 A ve %5 B ila %5 A ve %95 B arasında çalıştırmak ve 0.3 dakika tutmak üzere iki mobil faz (H_2O/asetonitril 95/5; mobil faz B: asetonitril içinde 10 mM amonyum asetat) kullanılmıştır. 0.5 µl'lik bir enjeksiyon hacmi kullanılmıştır. Koni voltajı pozitif iyonizasyon modunda 10 V ve negatif iyonizasyon modunda 20 V düzeyindeydi.

Yöntem E

Araç	Sütun	Mobil faz	Gradiyent	Akış --- sütun sıcaklığı	Çalışma Süresi
Waters: Acquity® UPLC® - DAD ve SQD	Waters : HSS T3 (1.8 µm, 2.1*100 mm)	A: 95% H_2O + %5 CH_3CN B: CH_3CN içinde 10mM CH_3COONH_4	%100 A'dan %5 A'ya 2.10 dakikada, %0 A'ya 0.90 dakikada, %5 A'ya 0.5 dakikada	0.8 --- 55	3.5

Yöntem F

Araç	Sütun	Mobil faz	Gradiyent	Akış --- sütun sıcaklığı	Çalışma süresi

Araç	Sütun	Mobil faz	Gradiyent	Akış / sütun sıcaklığı	Çalışma süresi
Waters: Alliance ® - DAD - ZQ ve ELSD 2000 Alltech	Waters : Xterra MS C18 (3.5µm, 4.6*100mm)	A: %0.25 CH3COOH ile %95 H2O + %5 CH_3CN, B: CH_3CN, C: CH3OH, D: (%40 CH3CN ve %40 CH3OH ve %20 H2O içinde 25mM CH_3COONH_4	%100 A'dan %1A'ya, %49 B ve %50 C 6.5 dakikada, %1 A ve %99 B'ye 0.5 dakikada, %100 D'ye 1 dakikada 1.0 dakika boyunca tutulmuştur ve %100 A'ya in 0.5 dakikada ve 1.5 dakika boyunca tutulmuştur.	1.6 / 40	11

Formülün (I) bileşiklerinin Biyolojik Aktivitesi

Biyolojik Çalışmaların Açıklaması

TLR7 ve TLR8 aktivitesinin değerlendirilmesi

İnsan TLR7 ve/veya TLR8 hücrelerini aktive etmek üzere bileşiklerin özelliği bir TLR7 veya TLR8 ifade vektörü ve NFκB-luc raporlayıcı yapı ile geçici olarak transfekte edilen HEK293 hücreleri kullanılarak bir hücresel raporlayıcı çalışmada değerlendirilmiştir.

Kısaca, HEK293 hücreleri kültür ortamında (%10 FCS ve 2mM Glutamin eklenmiş DMEM) büyütülmüştür. Hücrelerin 10 cm'lik kaplarda transfekte edilmesine yönelik olarak, hücreler Trypsin-EDTA ile ayrılmış, bir CMV-TLR7 veya TLR8 plazmit (750 ng), NFκB-luc plazmid (375 ng) karışımı ve bir transfeksiyon reaktif maddesi ile transfekte edilmiştir ve 37°C'de nemlendirilmiş %5 CO_2 atmosferde gece boyunca inkübe edilmiştir. Sonra transfekte edilen hücreler Trypsin-EDTA ile ayrılmış, PBS'te yıkanmış ve 1.67 x 10^5 hücre/mL yoğunlğunda bir ortamda tekrar süspanse edilmiştir. Sonra otuz mikrolitre hücre her hücreye 384 gözlü plakanın her gözüne dağıtılmıştır, burada

%4 DMSO'daki bileşiğin 10 µL'si bulunuyordu. 37°C'de, %5 CO_2 ile 6 saat inkübasyon sonrasında, her boşluğa 15 µL Steady Lite Plus sübstrat (Perkin Elmer) eklenerek lüsiferaz etkinliği belirlenmiştir ve okuma bir ViewLux ultraHTS mikroplaka görüntüleyicide (Perkin Elmer) gerçekleştirilmiştir. Doz tepki eğrileri dört kopya şeklinde gerçekleştirilen ölçümlerden elde edilmiştir. Çalışmanın standart sapmasının en az iki kat üstünde olan bir etki başlatan konsantrasyon olarak belirlenen, her bileşiğin en düşük etkili konsantrasyon (LEC) değerleri belirlenmiştir.

Bileşik toksisitesi 384 gözlü plakalarda, sadece CMV-TLR7 yapısı (1.67 x 10^5 hücre/mL) ile transfekte edilen her gözde 30 µL'lik hücreli benzer bir seyreltme serisi bileşiği kullanılarak belirlenmiştir. Hücre yaşayabilirliği 37°C'de, %5 CO_2 ile altı saat boyunca inkübasyon sonrasında, her göze 15 µL ATP hafif (Perkin Elmer) ekleyerek ve ViewLux ultraHTS microplaka görüntüleyicide (Perkin Elmer) okuyarak ölçülmüştür. Veriler CC_{50} olarak bildirilmiştir.

Aynı şekilde, sadece NFκB-luc raporlayıcı (1.67 x 10^5 hücre/mL) ile transfekte edilen her gözde 30 µL'lik hücreli benzer bir seyreltme serisi bileşiği (%4 DMSO'da bileşiğin 10 µL'si) kullanılarak belirlenmiştir. 37°C'de, %5 CO_2 ile 6 saat boyunca inkübasyon sonrasında, lüsiferaz aktivitesi her göze 15 µL Steady Lite Plus sübstrat (Perkin Elmer) ekleyerek ve ViewLux ultraHTS microplaka görüntüleyicide (Perkin Elmer) okuyarak ölçülmüştür. Paralel taramadaki veriler LEC olarak bildirilmiştir.

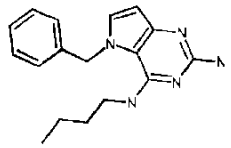
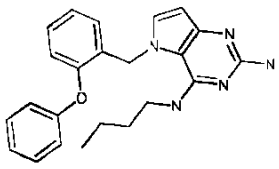
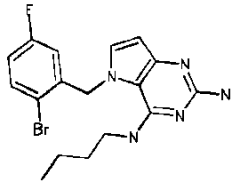
ISRE destekleyici unsurların aktivasyonu

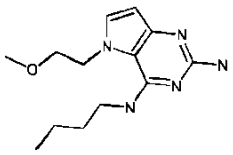
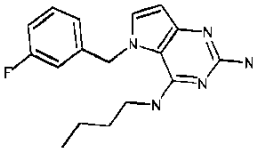
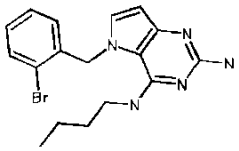
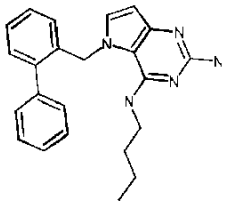
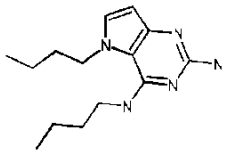
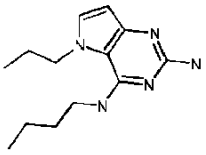
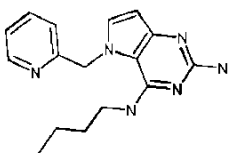
Bileşiklerin IFN-I başlatma potansiyeli, PBMC'nin düzenlenen ortamı ile interferon destekli tepki unsurlarının (ISRE) aktivasyonunu ölçerek değerlendirilmiştir. GAAACTGAAACT dizisinin ISRE unsuru, IFNAR (Clontech, PT3372-5W) reseptörlerine IFN-I bağlanması sonrasında aktive edilen STAT1-STAT2-IRF9 transkripsiyon faktörüne çok tepkiseldir. Clontech'in (ref. 631913) plazmit pISRE-Luc'u bu ISRE unsurundan 5 kopya içerir, ardından yıldız böceği lüsiferazı ORF gelir. Düzenlenen PBMC hücresi kültür ortamının profiline pISRE-Luc (HEK-ISREluc) ile transfekte edilen bir HEK293 hücre hattı oluşturulmuştur.

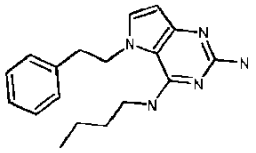
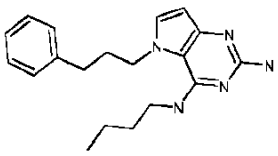
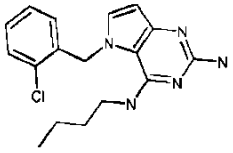
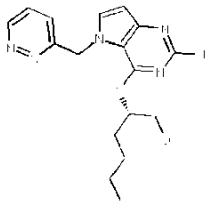
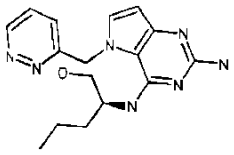
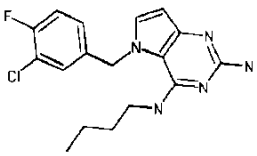
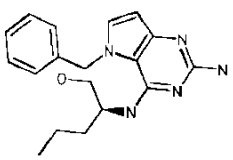
Kısaca, PBMC'ler bir standart Ficoll santrifüjleme protokolü kullanılarak en az iki donörün beyaz kan hücrelerinin bir tabakasından hazırlanmıştır. Ayrılan PBMC'ler,

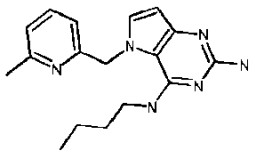
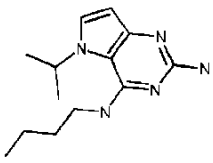
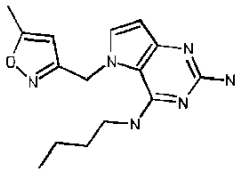
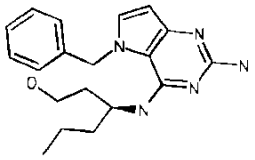
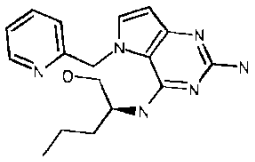
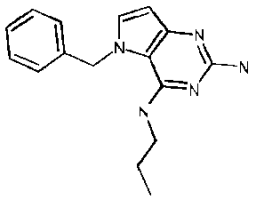
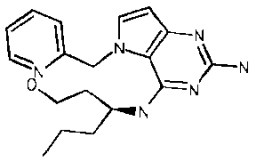
RPMI ortamı %10 insan AB serumu ile desteklenen RPMI ortamında tekrar süspanse edilmiştir ve 2 x 10^5 göz/hücre bileşikleri içeren 384 gözlü plakaya dağıtılmıştır (70 µL toplam hacim). Gece boyunca inkübasyon sonrasında, 30 µL içinde 5 x 10^3 HEK-ISREluc hücre/göz içeren 384 gözlü plakaya (bir gün önce hazırlanmış) 10 µL üst faz aktarılmıştır. 24 saatlik inkübasyon sonrasında, ISRE unsurlarının aktivasyonu 40 µL/göz Steady Lite Plus sübstrat (Perkin Elmer) kullanılarak lüsiferaz aktivitesini inceleyerek ölçülmüştür ve ViewLux ultraHTS mikroplaka görüntüleyici (Perkin Elmer) ile ölçülmüştür. Her bileşiğin HEK-ISREluc hücreleri üstündeki uyarıcı aktivitesi, incelemenin standart sapmasının en az iki kat üstünde bir lüsiferaz aktivitesi ile sonuçlanan PBMC'lere uygulanan bileşik konsantrasyonu olarak tanımlanan LEC değeri olarak bildirilmiştir. Dolayısıyla LEC, belirli bir PBMC kültürü ortamı miktarının transferinde ISRE aktivasyonu derecesini belirtir. Rekombinant interferonu α-2a (Roferon-A) standart kontrol bileşiği olarak kullanılmıştır.

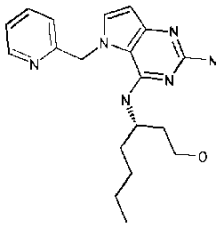
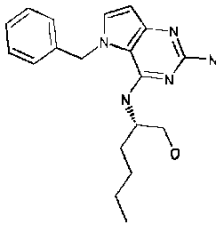
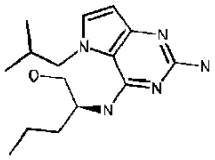
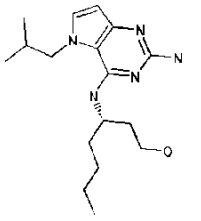
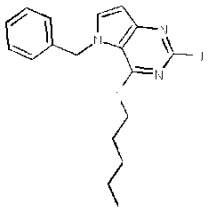
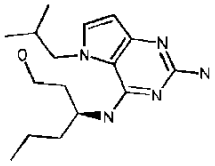
Tablo 2. Formülün (I) bileşiklerinin aktivitesi. Tüm bileşikler, HEK 293 NF-kB yukarıda açıklanan paralel tarama çalışmasında hiçbir aktivite göstermemiştir (LEC >25 µM).

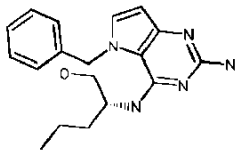
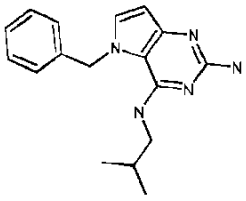
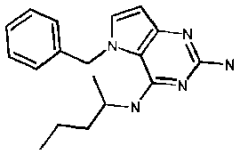
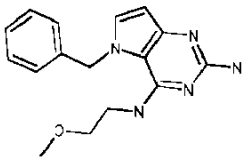
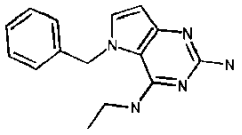
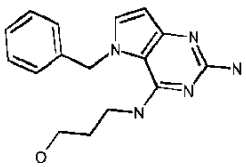
#	YAPI	TLR7 LEC (µM)	TLR8 LEC (µM)	PBMC LEC (µM)
1		0.20	>25	0.20
2		0.50	>25	0.60
3		2.6	>25	1.2
4		0.60	13.5	0.4

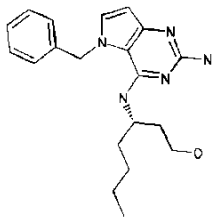
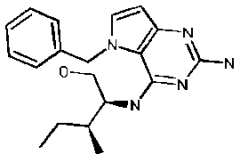
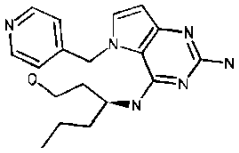
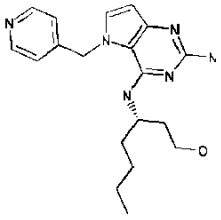
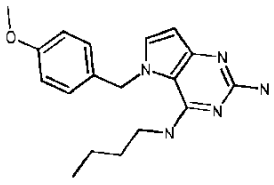
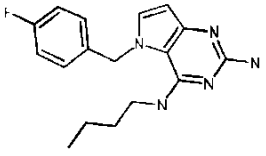
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
5		0.30	>25	0.2
6		1.3	>25	0.7
7		0.61	>25	0.8
8		0.49	1.7	0.15
9		0.53	2.1	0.22
10		0.15	>25	0.06
11		1.5	3,5	0.56

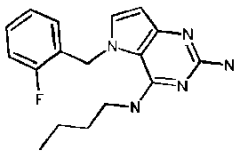
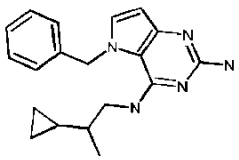
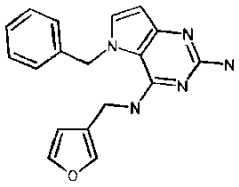
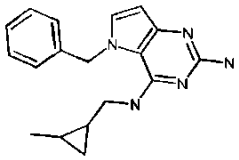
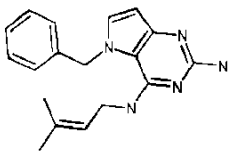
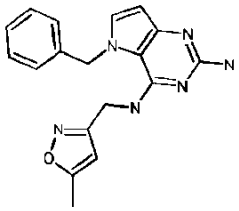
#	YAPI	TLR7 LEC (µM)	TLR8 LEC (µM)	PBMC LEC (µM)
				
12		0.14	0.7	0.05
13		0.80	>25	0.89
14		0.52	6,57	0.01
15		5.84	>25	0.1
16		0.89	>25	0.6
17		0.07	12,5	0.01
18		0.07	>25	0.01

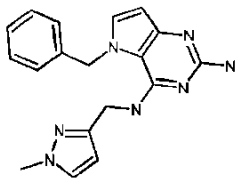
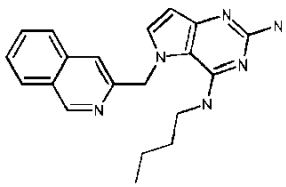
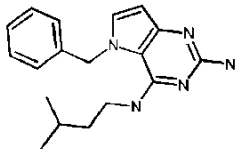
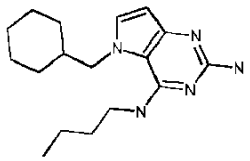
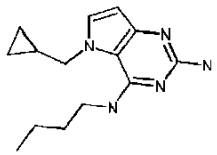
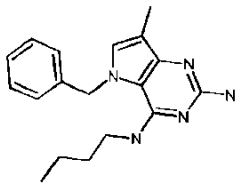
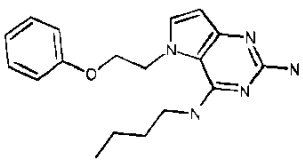
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
19		2.5	7.06	0.62
20		0.14	1.3	0.02
21		0.009	7.4	0.0007
22		0.48	9.2	0.02
23		0.83	>25	0.27
24		0.02	6.47	0.0007

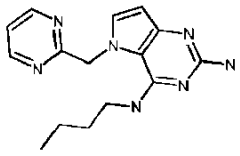
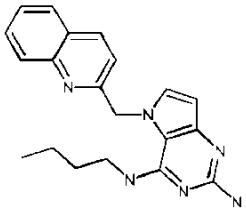
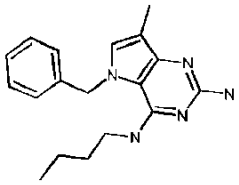
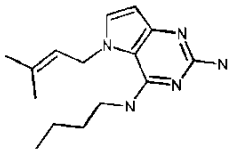
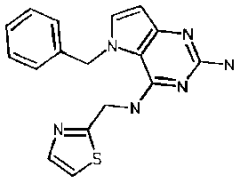
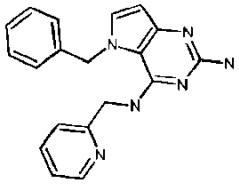
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
25		0.01	2.84	0.001
26		0.03	1.95	0.002
27		0.15	0.85	0.17
28		0.11	1.1	0.03
29		0.15	>25	0.04
30		0.16	0.67	0.05

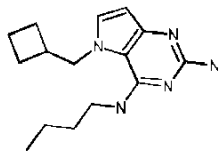
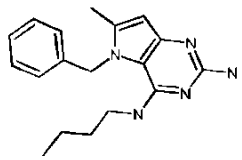
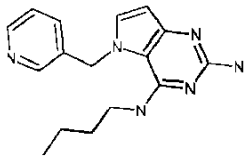
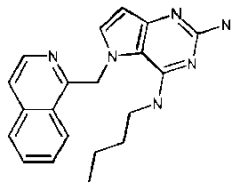
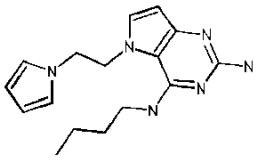
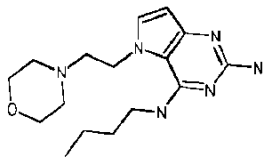
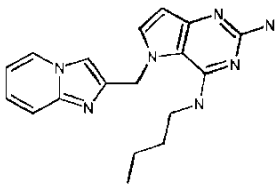
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
31		0.22	>25	0.16
32		0.91	>25	0.52
33		0.03	>25	0.04
34		0.91	>25	0.54
35		1.49	>25	0.70
36		1.06	>25	0.59
37		0.005	>25	0.007

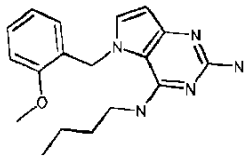
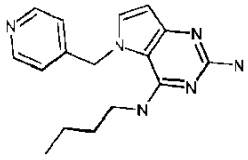
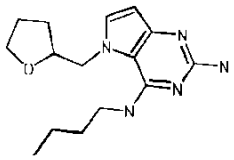
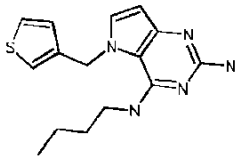
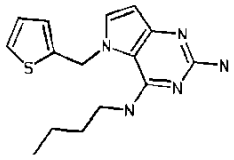
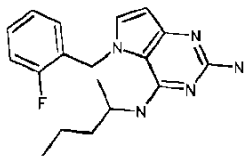
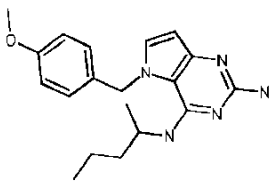
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
38		0.54	>25	0.63
39		0.17	>25	0.009
40		0.12	24.61	0.004
41		0.09	>25	0.11
42		0.28	>25	0.16
43		0.11	>25	0.17

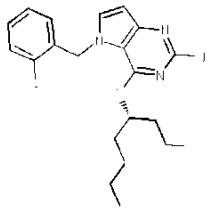
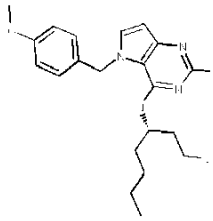
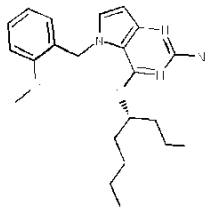
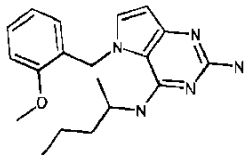
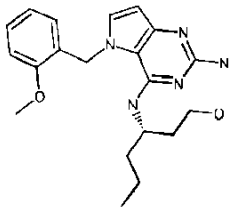
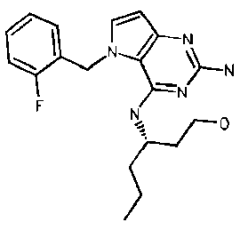
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
44		1.51	>25	2.45
45		19.9	>25	0.74
46		0.83	>25	0.17
47		17.5	>25	1.79
48		0.05	>25	0.03
49		22.43	>25	2.34

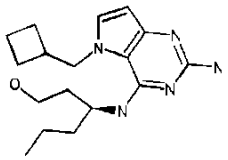
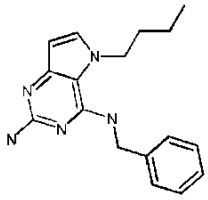
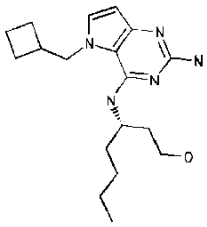
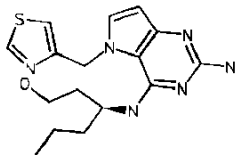
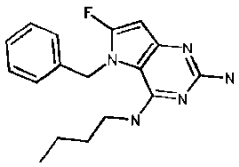
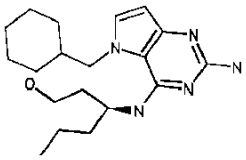
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
50		1.01	>25	0.13
51		5.14	>25	0.59
52		0.12	>25	0.09
53		0.38	2.78	0.07
54		1.68	>25	0.90
55		0.08	0.81	0.06

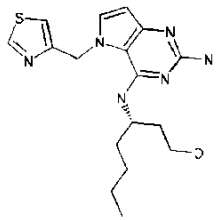
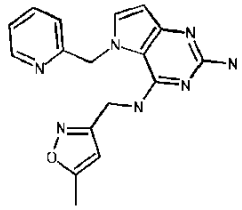
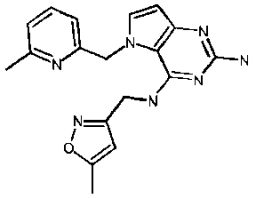
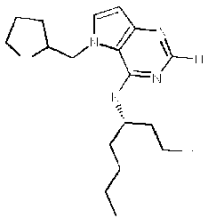
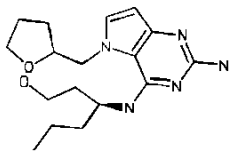
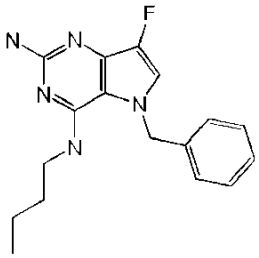
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
56		0.99	17.5	0.07
57		0.33	>25	0.28
58		0.24	>25	0.90
59		0.37	>25	0.22
60		0.39	>25	0.33
61		1.01	>25	1.95
62		0.06	0.9934	0.06

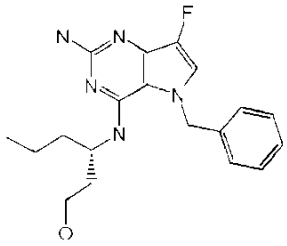
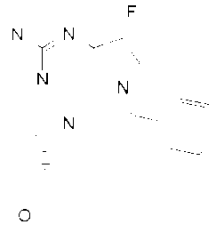
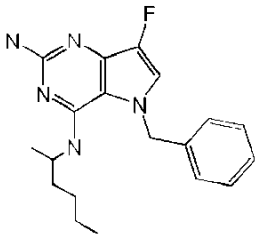
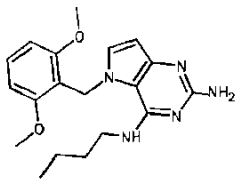
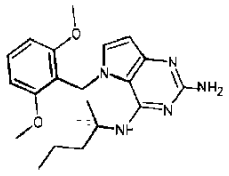
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
63		0.67	>25	0.18
64		1.36	>25	0.26
65		0.1687	>25	0.08
66		2.57	3.96	0.91
67		0.056	6.71	0.04
68		0.19	>25	0.04

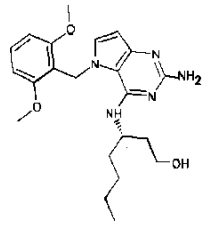
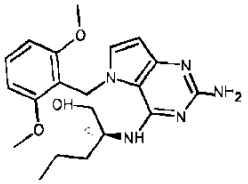
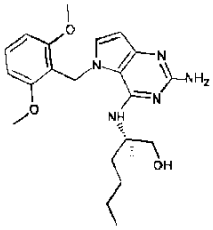
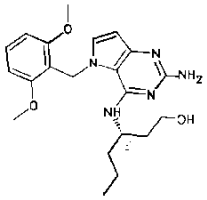
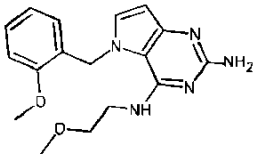
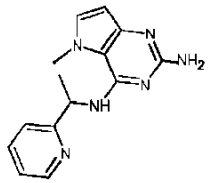
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
69		0.004	0.71	0.002
70		1.53	>25	0.75
71		0.32	4.68	0.24
72		0.13	>25	0.04
73		0.28	>25	0.13
74		0.10	>25	0.04
75		0.04	>25	0.04

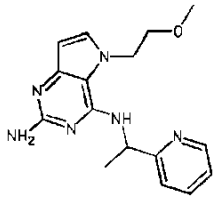
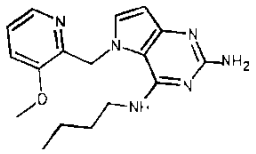
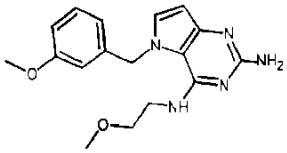
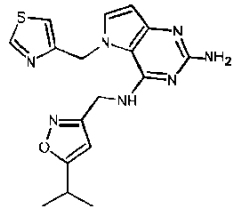
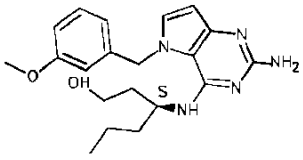
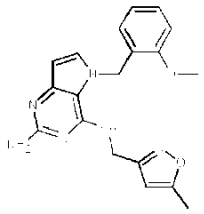
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
76		0.01	4.09	0.007
77		0.008	2.62	0.002
78		0.0004	0.5577	<0.0004
79		0.004	0.94	0.001
80		<0.0006	0.689	<0.0004
81		0.01	22.02	0.002

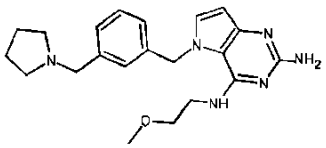
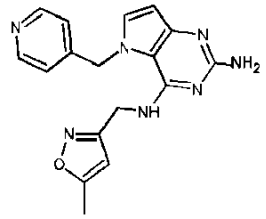
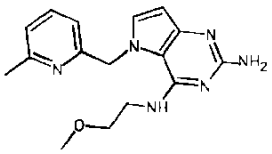
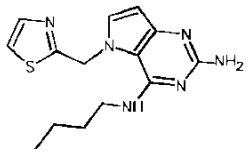
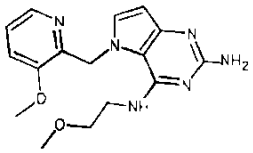
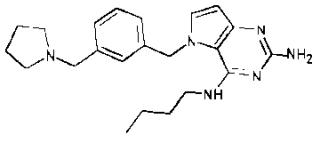
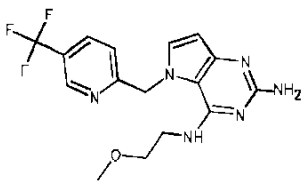
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
82		0.07	0.57	0.01
83		1.57	>25	2.3
84		0.04	1.14	0.01
85		0.03	10.14	0.002
86		1.63	>25	0.47
87		0.01	>25	0.008
88		0.01	2.46	0.0006

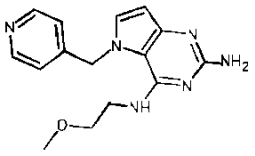
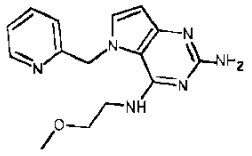
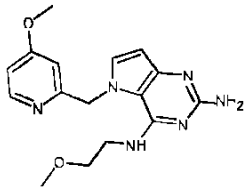
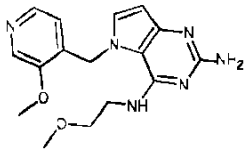
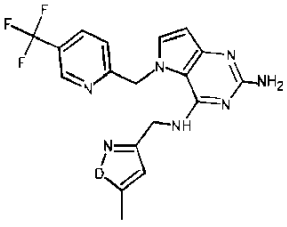
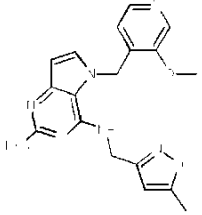
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
89		0.04	>25	0.006
90		0.03	>25	0.01
91		0.05	2.17	0.02
92		0.10	4.46	0.02
93		0.26	>25	0.12

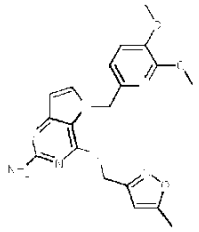
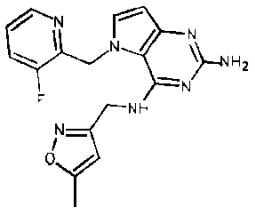
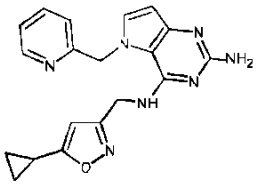
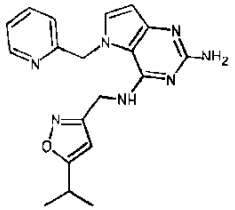
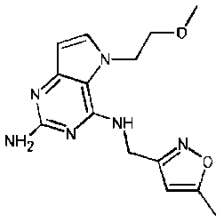
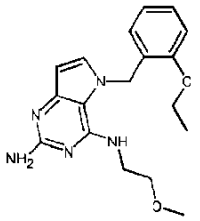
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
94		0.01	>25	0.01
95		0.01	3.26	0.007
96		0.05	>25	0.04
97		<0.01	0.23	0.001
98		<0.01	0.22	0.001
99		<0.01	0.1	<0.001

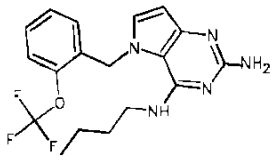
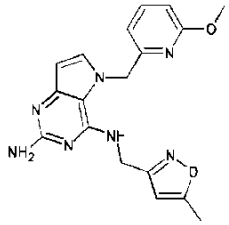
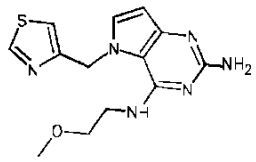
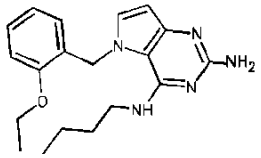
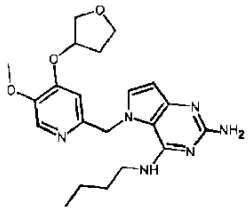
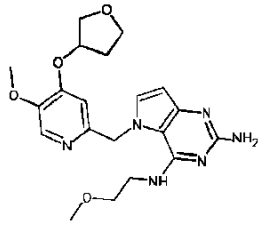
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
100		<0.01	0.04	<0.001
101		<0.01	0.08	<0.001
102		<0.01	0.14	<0.001
103		0.032	>25	0.018
104		11.960	>25	1.980
105		0.827	>25	0.194

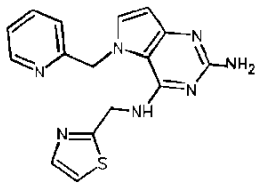
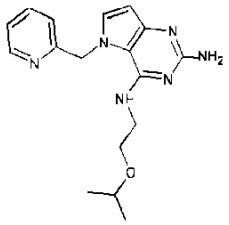
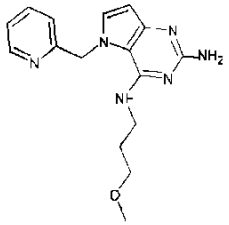
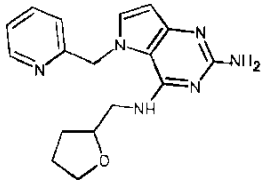
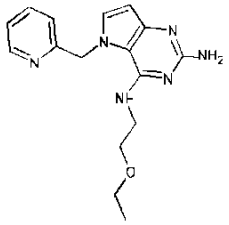
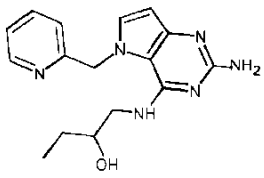
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
106		0.008	0.59	0.005
107		2.030	>25	2.130
108		0.126	>25	0.070
109		0.005	7.17	0.003
110		0.002	>25	0.001
111		0.637	>25	0.293

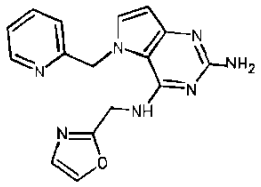
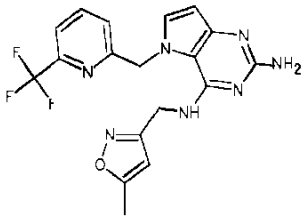
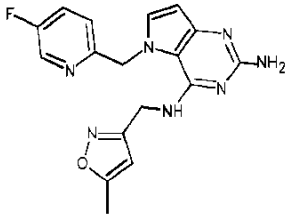
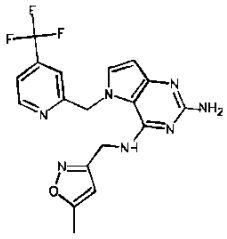
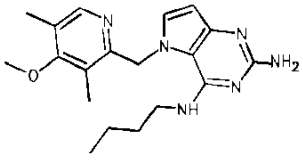
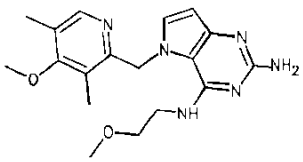
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
112		0.741	>25	0.209
113		1.320	>25	0.807
114		0.186	2.27	0.133
115		0.241	7.93	0.079
116		0.049	>25	0.022
117		2.950	>22.7	1.430

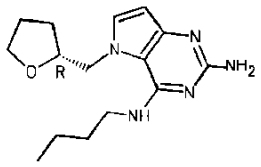
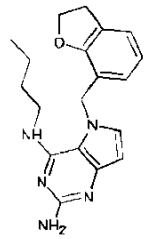
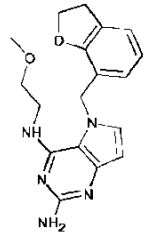
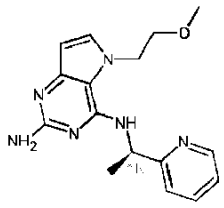
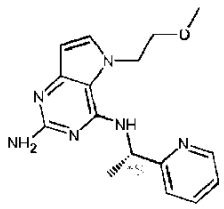
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
118		1.650	>25	3.010
119		1.810	>25	2.180
120		3.220	>25	2.160
121		0.172	>25	0.046
122		0.050	>25	0.030
123		0.026	>25	0.002
124		0.003	>22	0.001

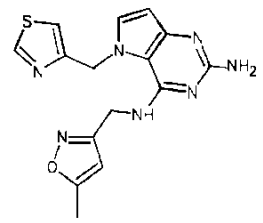
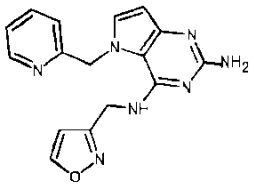
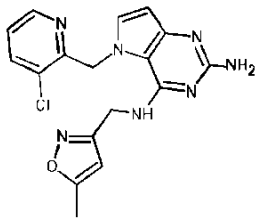
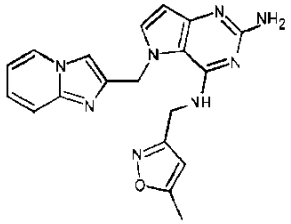
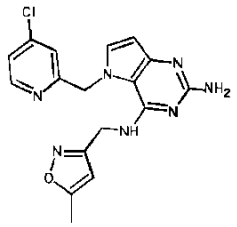
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
125		0.086	>25	0.009
126		0.054	>25	0.008
127		0.337	>25	0.019
128		0.342	>25	0.062
129		0.670	>25	0.122

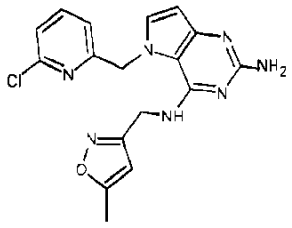
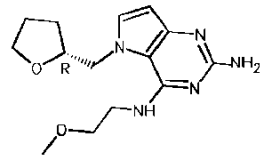
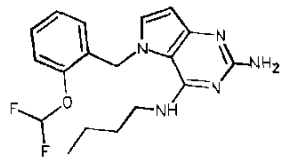
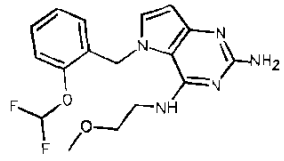
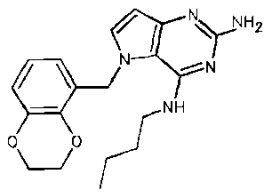
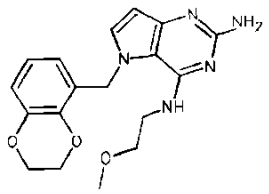
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
130		1.940	>25	0.804
131		0.004	24.6	0.001
132		5.99	>25	0.879
133		0.07	>25	0.023
134		1.20	>25	0.104
135		12.5	>25	4.050
136		3.04	>25	0.559

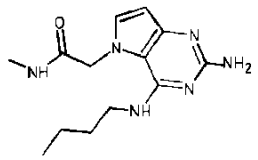
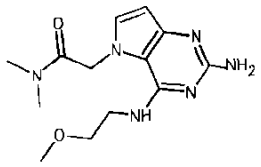
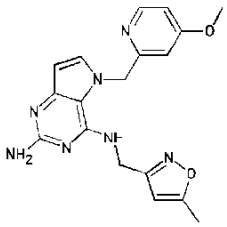
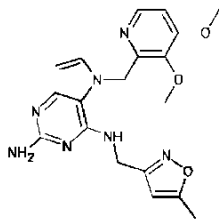
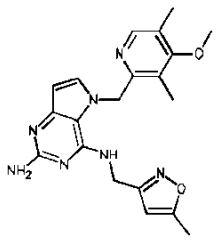
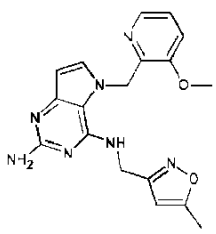
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
137		13.8	>25	2.030
138		4.45	>25	0.502
139		1.41	>25	0.588
140		1.24	>25	0.513
141		0.43	>25	0.048

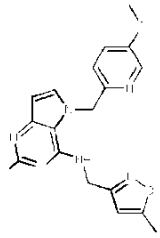
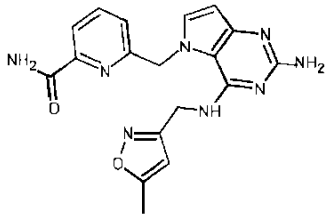
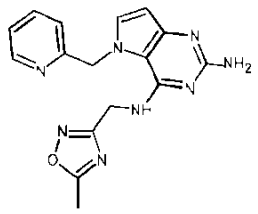
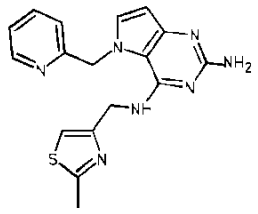
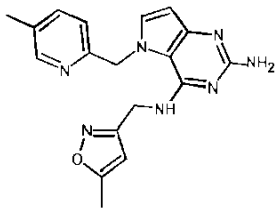
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
142		0.52	>25	0.134
143		0.10	>25	0.016
144		0.07	>25	0.009
145		0.05	>25	0.021
146		0.20	>25	0.139
147		4.49	>25	2.020

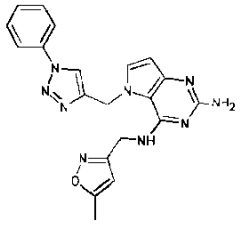
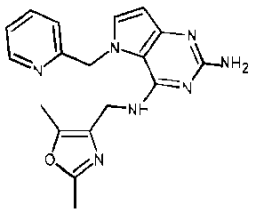
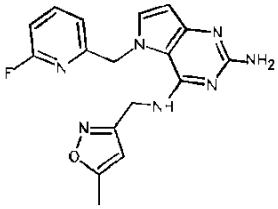
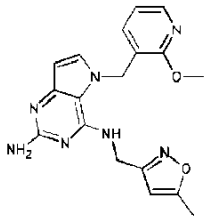
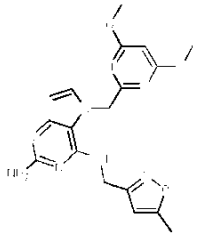
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
148		0.16	3.93	0.056
149		0.02	>25	0.006
150		0.25	>25	0.054
151		12.8	>25	2.580
152		0.73	>25	0.142
153		0.05	>25	0.002

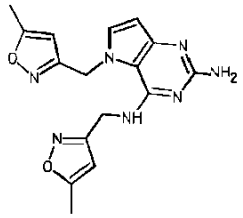
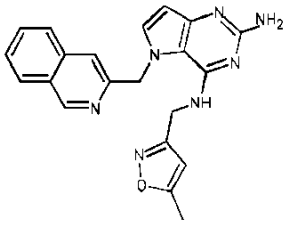
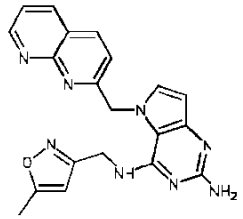
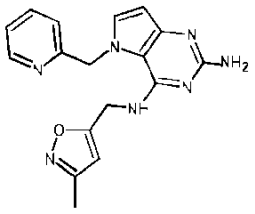
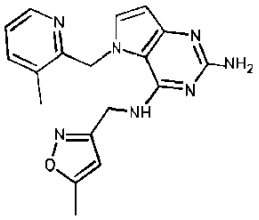
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
154		0.08	>25	0.017
155		0.90	>25	0.415
156		0.05	>25	0.040
157		0.03	>25	0.003
158		0.05	>25	0.020

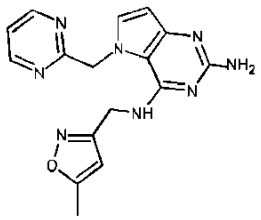
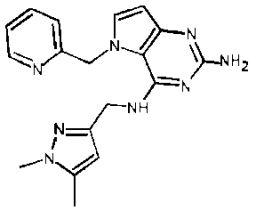
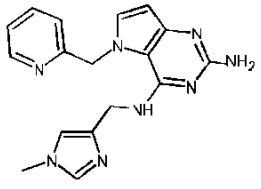
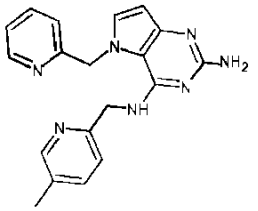
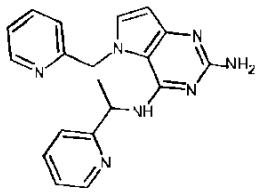
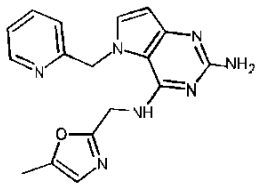
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
159		0.05	>25	0.019
160		8.07	>25	1.810
161		0.02	>25	0.009
162		0.32	>25	0.128
163		<0.01	0.75	0.001
164		0.04	15.93	0.025
165		4.94	>25	0.957

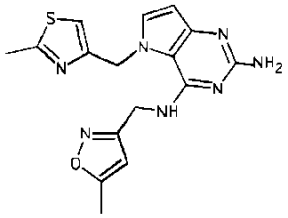
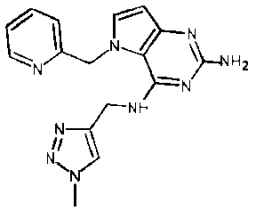
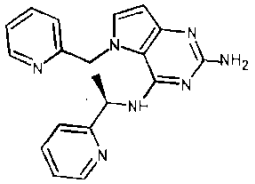
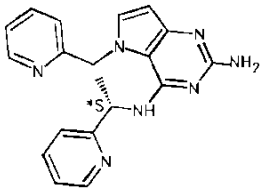
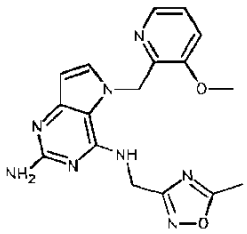
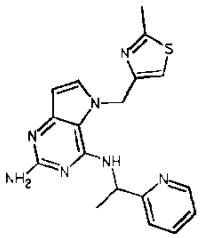
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
166		4.88	NA	NA
167		0.09	>25	0.008
168		0.09	>25	0.011
169		0.04	>25	0.011
170		0.01	>25	0.002

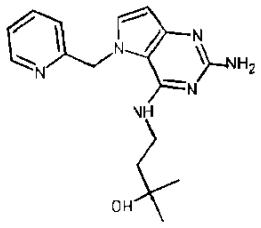
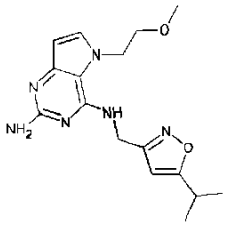
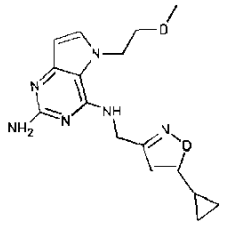
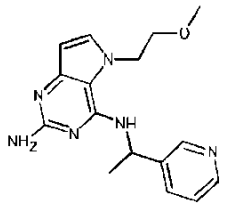
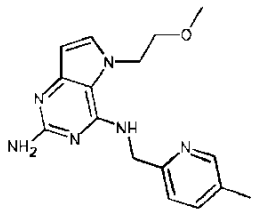
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
171		0.02	>25	NA
172		1.40	>25	0.017
173		0.53	>25	0.066
174		6.13	>25	2.200
175		0.02	>25	0.009
176		0.04	>25	0.009

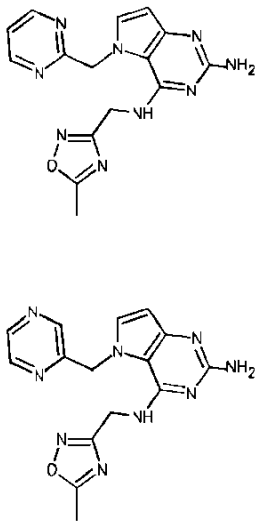
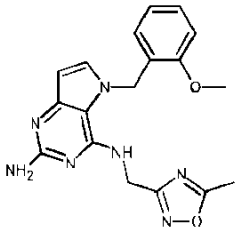
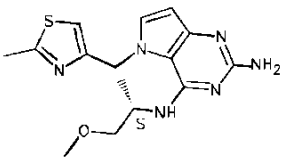
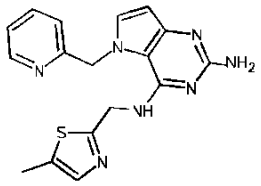
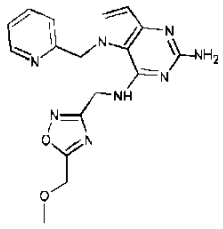
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
177		8.67	>25	3.930
178		0.15	>25	0.014
179		0.02	>25	0.003
180		0.01	>25	0.004
181		0.06	20.2	0.015

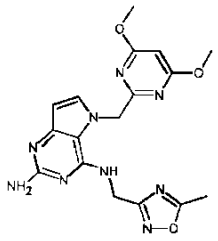
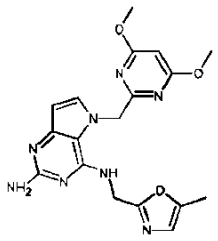
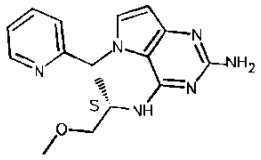
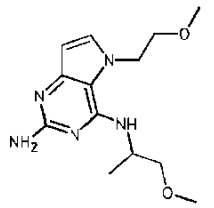
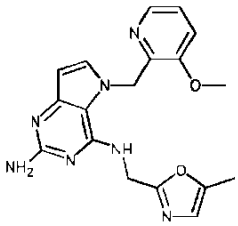
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
182		0.05	>25	0.018
183		0.59	>25	0.009
184		0.49	>25	0.131
185		0.07	>25	0.018
186		0.14	>25	0.035

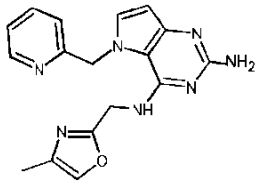
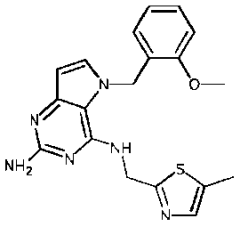
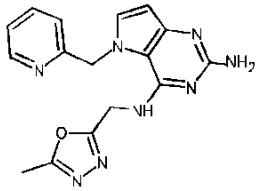
#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
187		4.78	>25	0.520
188		7.62	>25	0.047
189		0.40	>25	0.074
190		0.26	>25	0.038
				
191		0.06	>24	0.006
192		0.07	>25	0.030

#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
193		11.3	>25	0.447
194		2.38	>25	0.507
195		0.16	>25	0.024
196		0.01	12.6	0.002
197		0.39	>25	0.040

#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
198		8.76	>25	0.617
199		0.60	23.5	0.032
200		0.17	11.4	0.035
201		7.30	>25	0.978
202		1.61	>25	0.580
203		1.04	>25	0.138

#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
204		1.78	>25	0.188
205		<0.01	7.7	0.001
206		0.74	15	0.129
207		0.06	23	0.009
208		5.14	>25	0.402

#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
209		0.04	>25	0.008
210		0.02	>25	0.003
211		6.94	22	0.470
212		7.60	>25	2.090
213		<0.01	>25	0.001
214		1.16	>25	0.151

#	YAPI	TLR7 LEC (μM)	TLR8 LEC (μM)	PBMC LEC (μM)
				
215		<0.01	>25	0.001
				
216		1.24	>25	0.091