

【公報種別】特許法第17条の2の規定による補正の掲載

【部門区分】第3部門第2区分

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A 6 1 K 31/4545 (2006.01)

A 6 1 K 45/00 (2006.01)

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C 0 7 D 235/18 (2006.01)

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C 0 7 D 401/14 (2006.01)

C 0 7 D 403/14 (2006.01)

C 0 7 D 405/14 (2006.01)

C 0 7 D 409/12 (2006.01)

C 0 7 D 409/14 (2006.01)

C 0 7 D 413/14 (2006.01)

C 0 7 D 417/14 (2006.01)

【F I】

A 6 1 K 31/4184 Z C C

A 6 1 K 31/422

A 6 1 K 31/427

A 6 1 K 31/433

A 6 1 K 31/4439

A 6 1 K 31/4545

A 6 1 K 45/00

A 6 1 P 35/00

C 0 7 D 235/18

C 0 7 D 401/12

C 0 7 D 401/14

C 0 7 D 403/14

C 0 7 D 405/14

C 0 7 D 409/12

C 0 7 D 409/14

C 0 7 D 413/14

C 0 7 D 417/14

【手続補正書】

【提出日】平成18年2月28日(2006.2.28)

【手続補正1】

【補正対象書類名】特許請求の範囲

【補正対象項目名】全文

【補正方法】変更

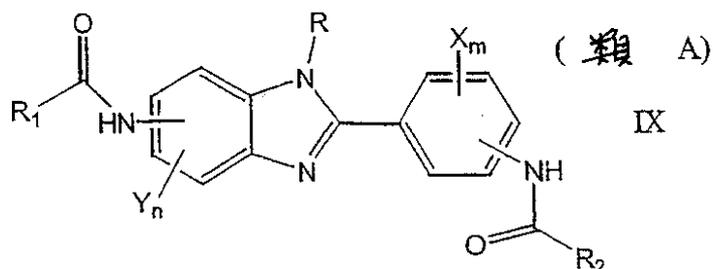
【補正の内容】

【特許請求の範囲】

【請求項 1】

癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用であって、前記化合物は、式

【化 1】



を有し、

XおよびYは、異なるかまたは同じであり、H、ハロゲン、アルキル、アルコキシ、アリール、置換アリール、ヒドロキシ、アミノ、アルキルアミノ、シクロアルキル、モルホリン、チオモルホリン、ニトロ、シアノ、 CF_3 、 OCF_3 、 COR_1 、 $COOR_1$ 、 $CONH_2$ 、 $CONHR_1$ 、および $NHCOR_1$ からなる群から個々に選択され、

nは1～3の整数であり、

mは1～4の整数であり、

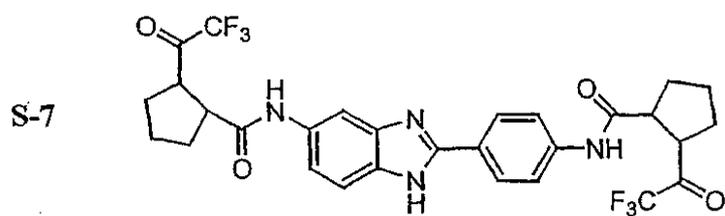
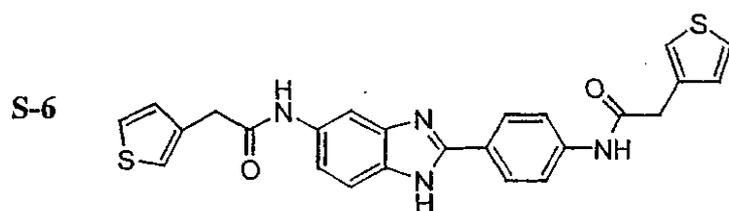
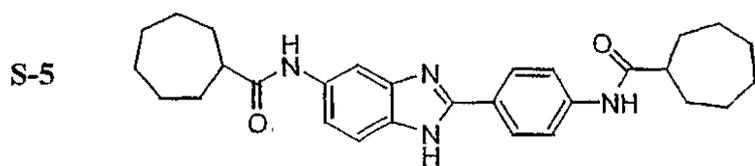
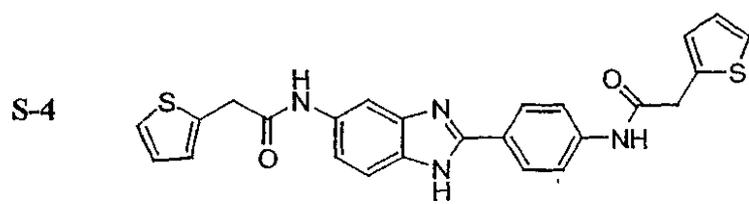
Rは、H、 CH_3 、 C_2H_5 、 C_3H_7 、 C_4H_9 、 CH_2Ph 、 $CH_2C_6H_4-F(p-)$ 、 $COCH_3$ 、 $COCH_2CH_3$ 、 $CH_2CH_2N(CH_3)_2$ 、および $CH_2CH_2CH_2N(CH_3)_2$ からなる群から選択され、

R_1 および R_2 は、H、アルキル、置換アルキル、アルケニル、置換アルケニル、アルキニル、置換アルキニル、シクロアルキル、置換シクロアルキル、シクロアルケニル、置換シクロアルケニル、ポリシクロアルキル、置換ポリシクロアルキル、ポリシクロアルケニル、置換ポリシクロアルケニル、アリールアルキル、置換アリールアルキル、ヘテロアリールアルキル、置換ヘテロアリールアルキル、アリールシクロアルキル、置換アリールシクロアルキル、ヘテロアリールシクロアルキル、置換ヘテロアリールシクロアルキル、ヘテロ環、置換ヘテロ環、ヘテロ原子、および置換ヘテロ原子からなる群から個々に選択される、使用。

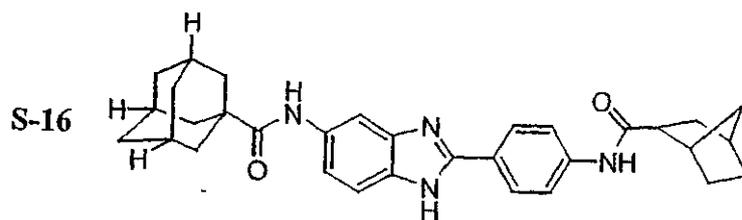
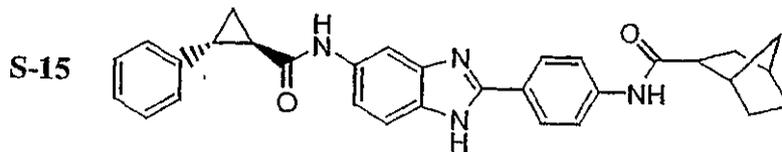
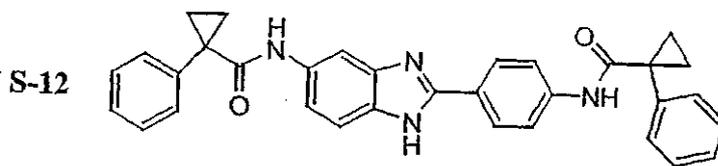
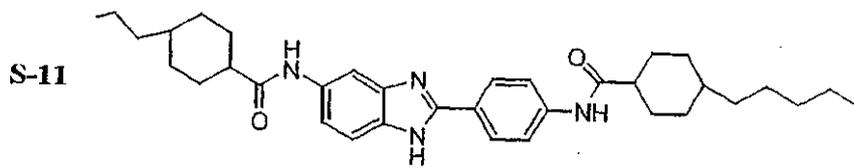
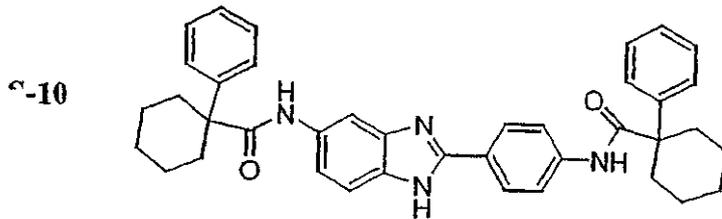
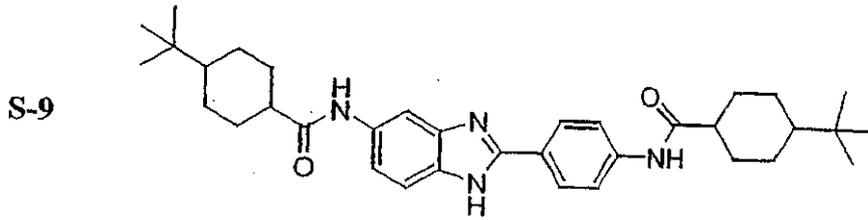
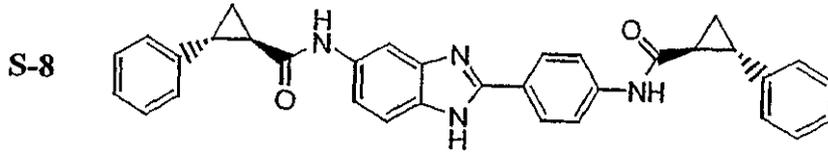
【請求項 2】

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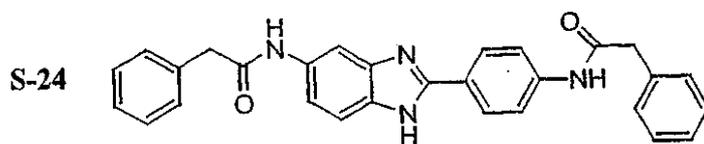
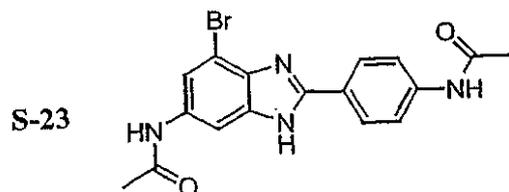
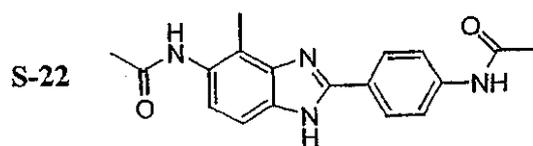
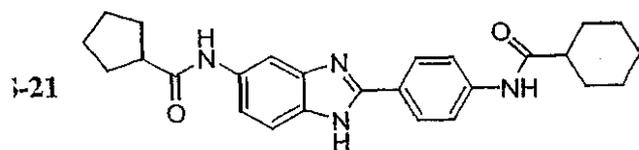
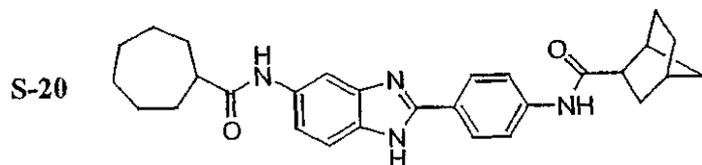
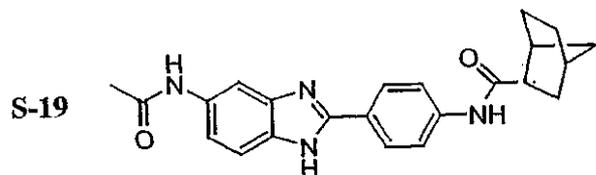
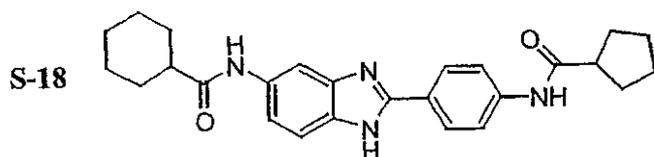
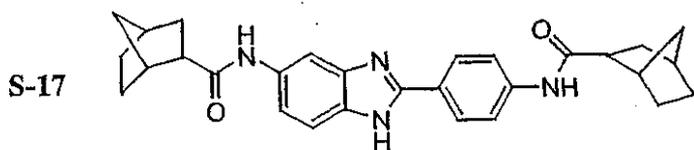
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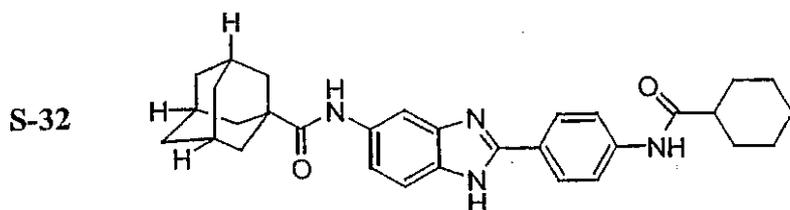
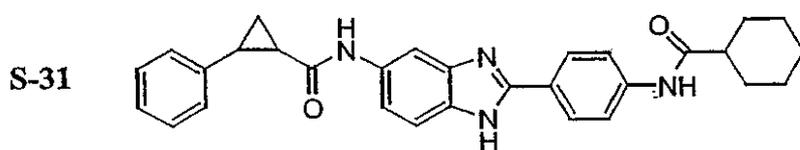
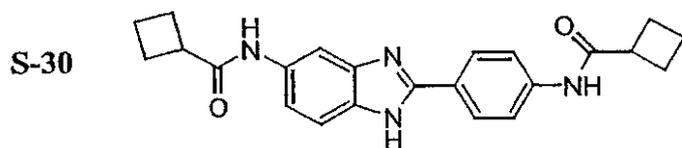
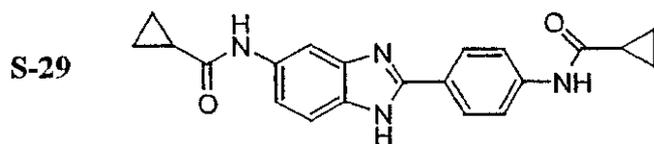
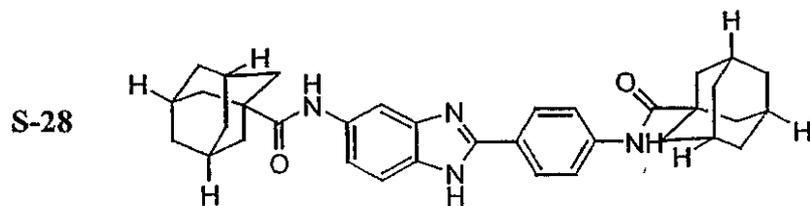
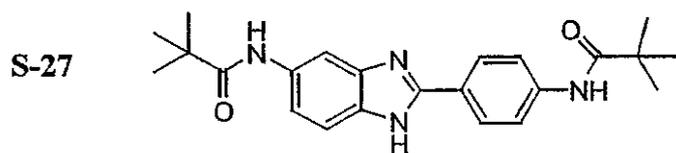
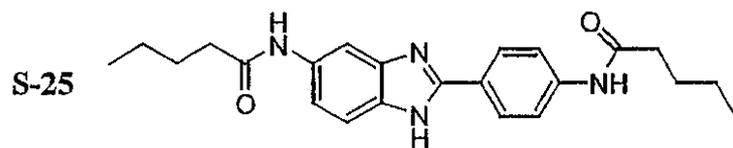
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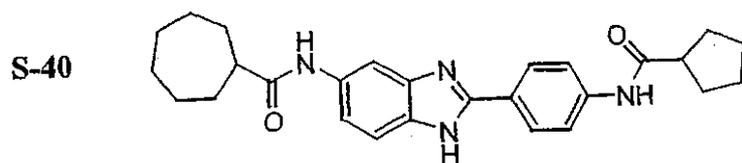
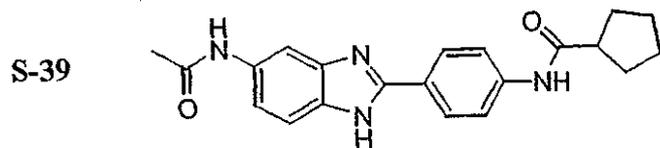
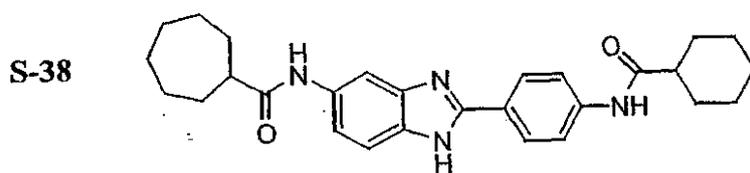
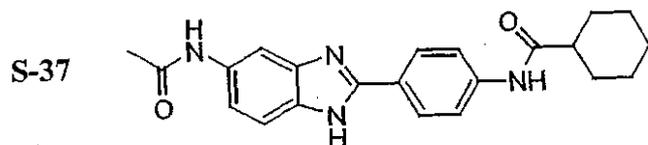
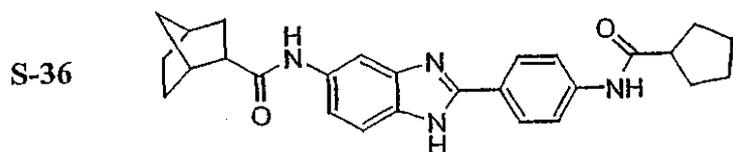
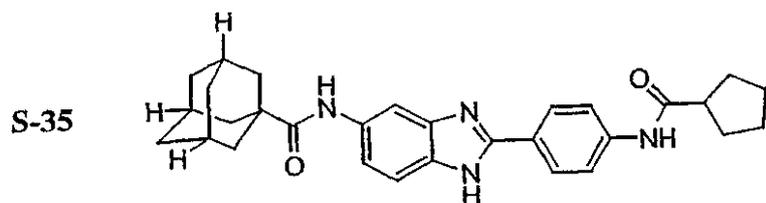
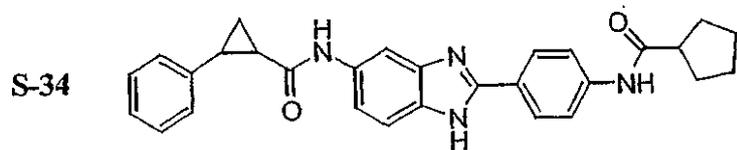
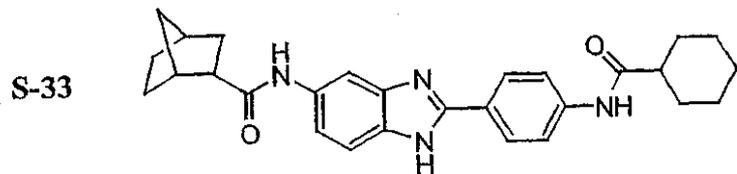
【化 4】



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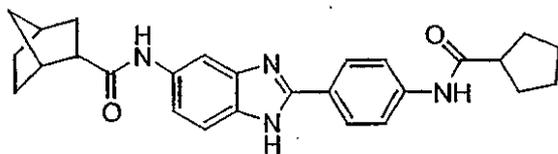


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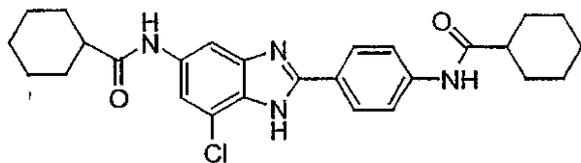


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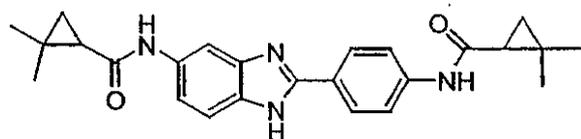
S-41



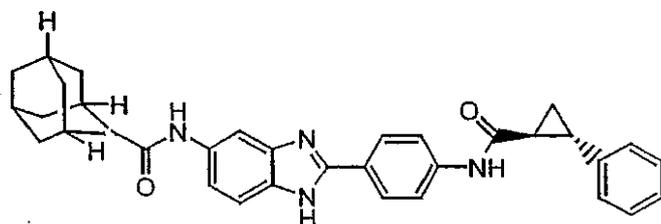
S-42



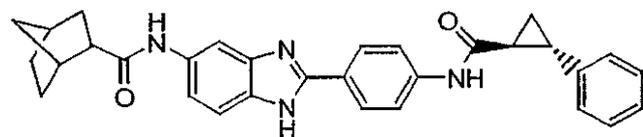
S-43



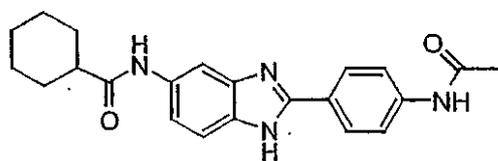
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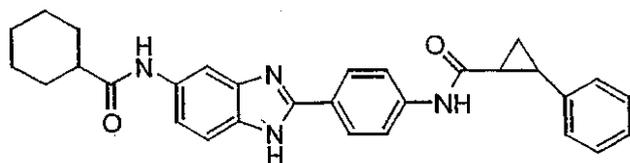
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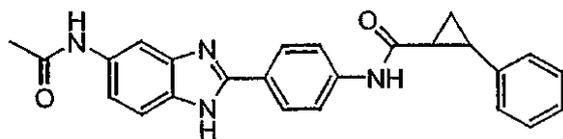
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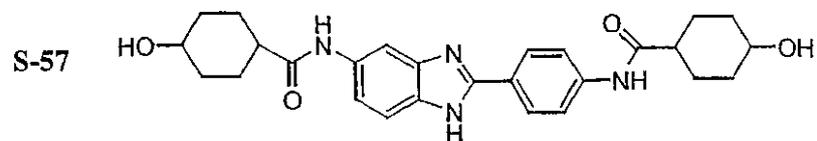
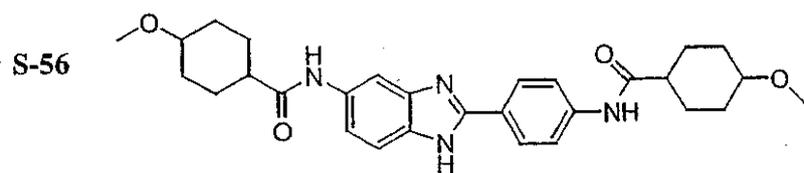
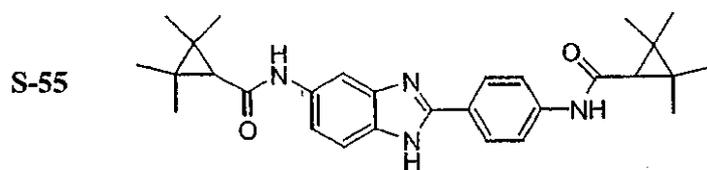
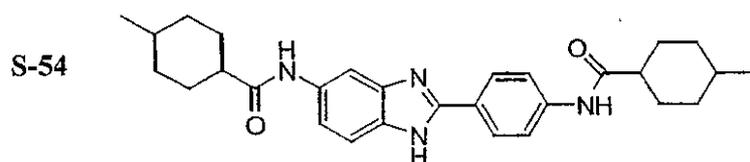
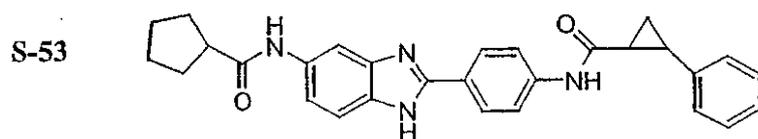
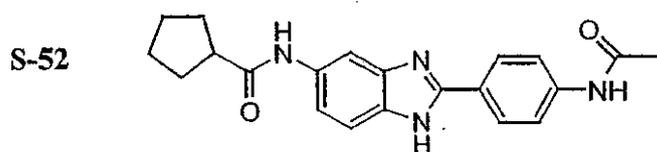
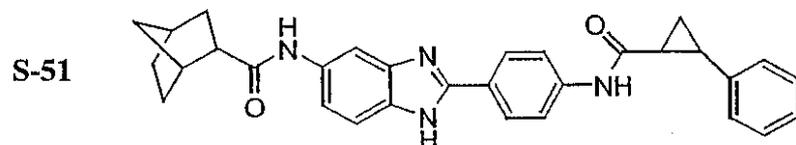
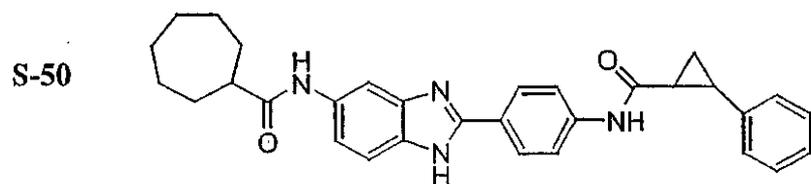
S-48



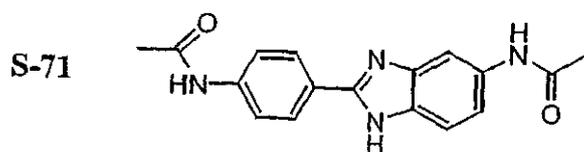
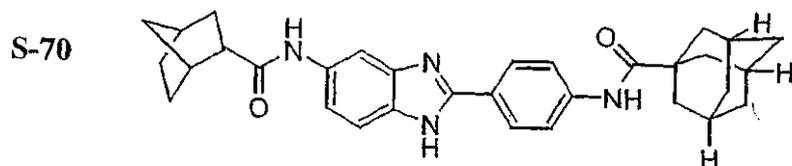
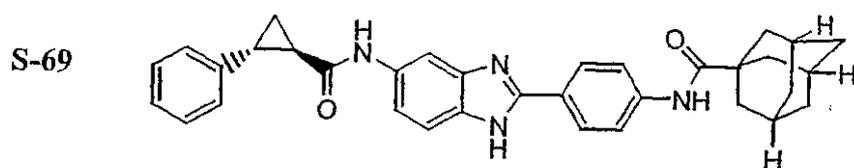
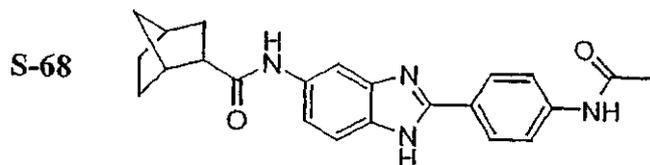
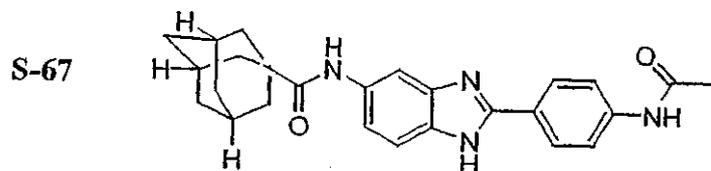
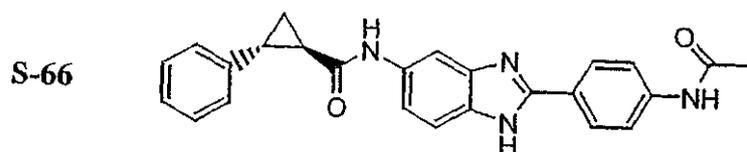
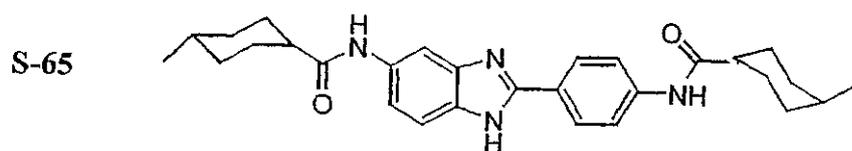
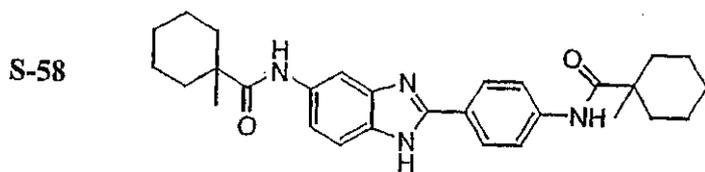
S-49



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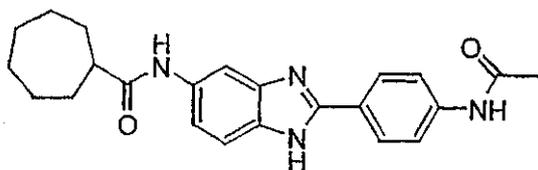


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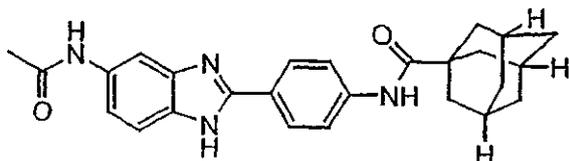


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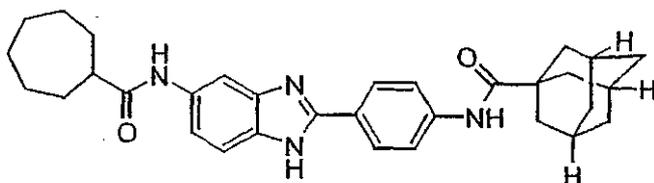
S-72



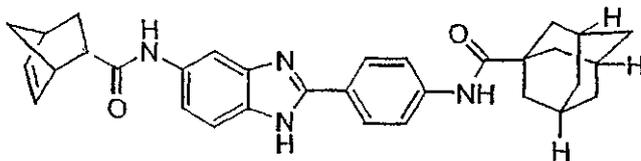
S-74



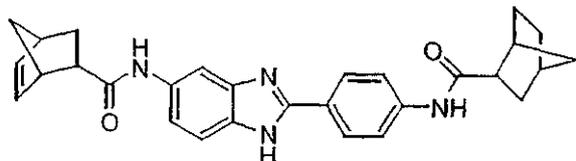
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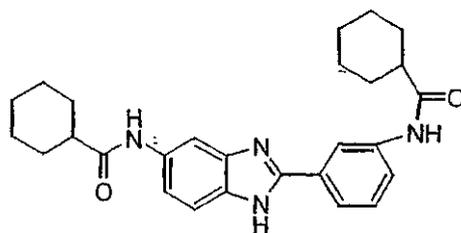
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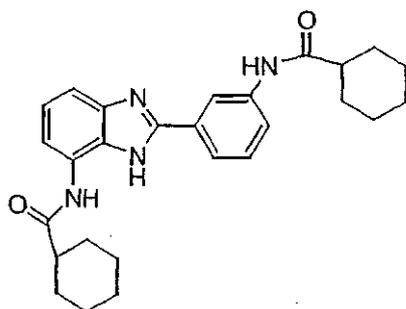
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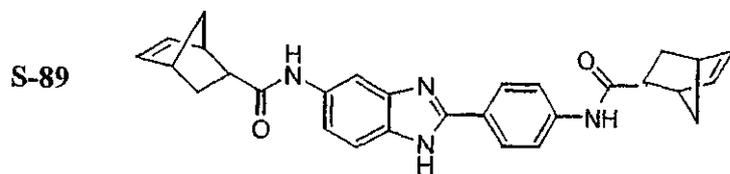
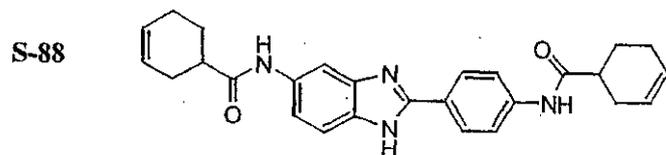
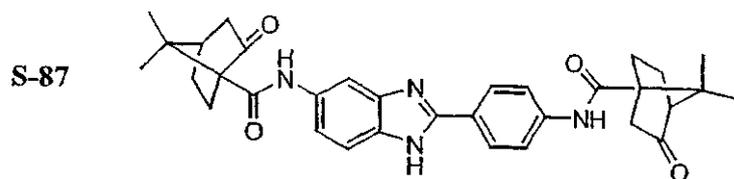
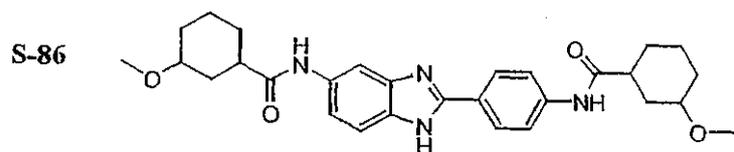
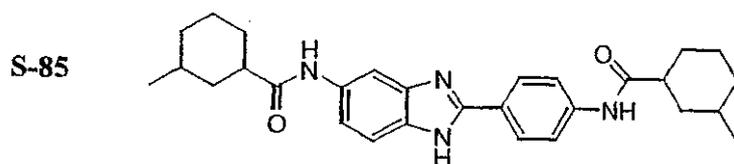
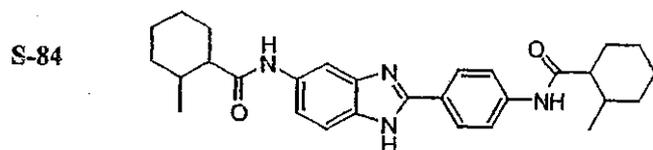
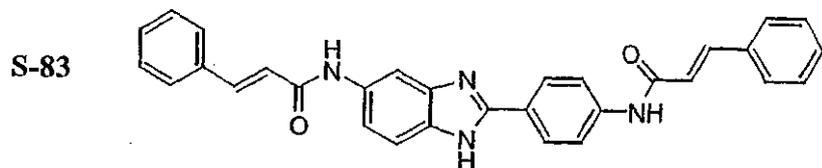
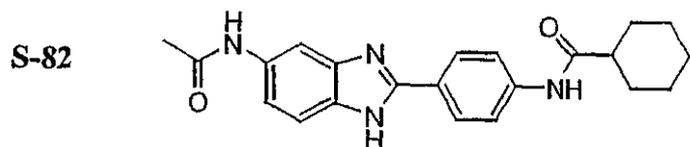
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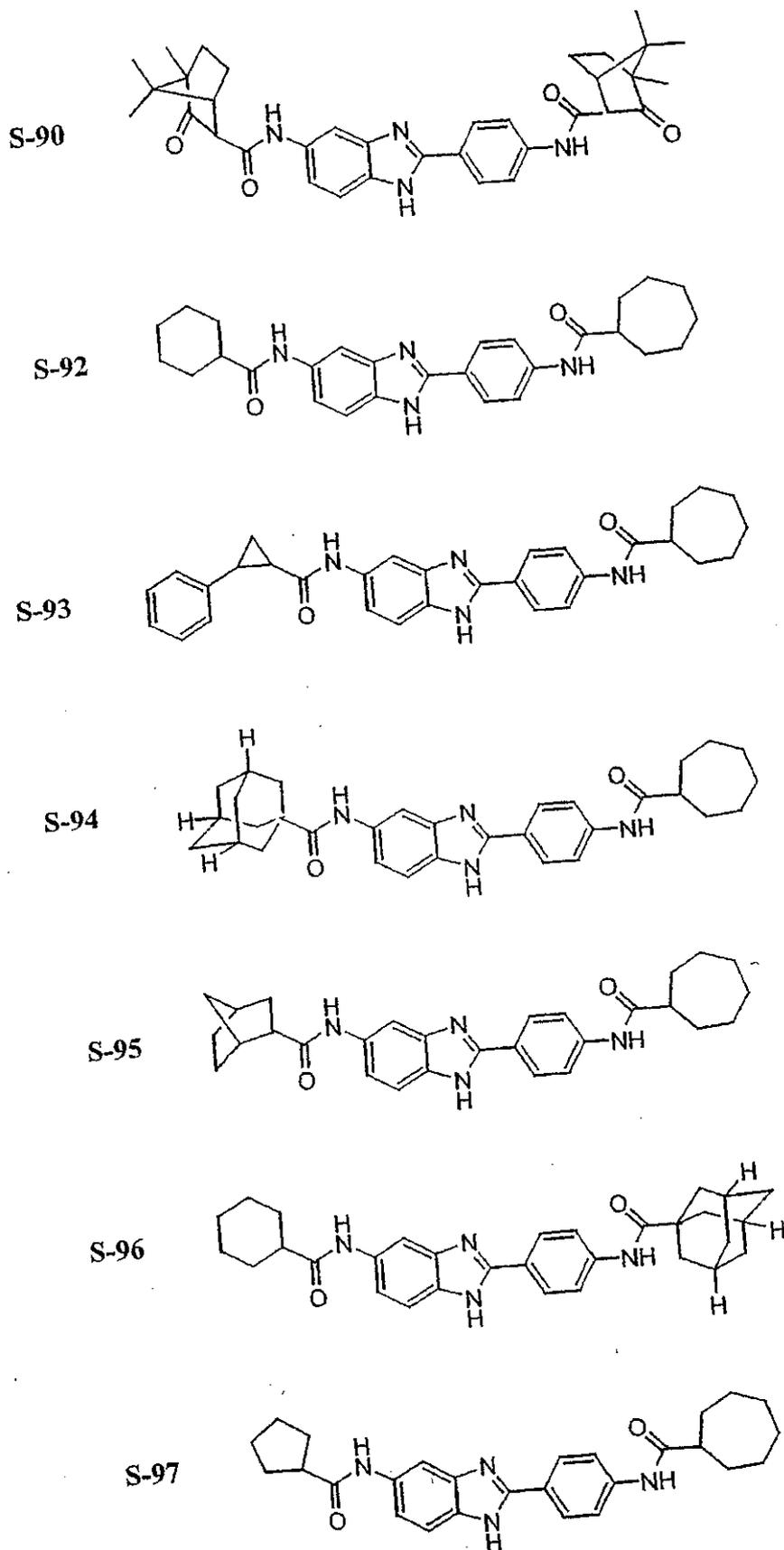
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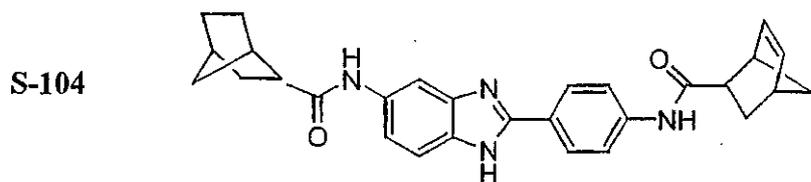
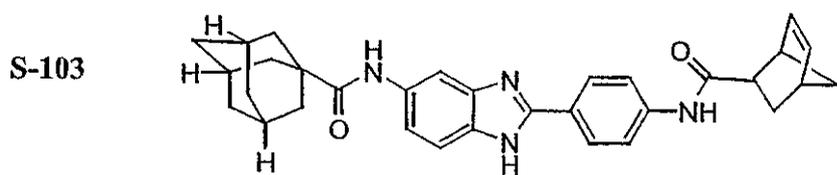
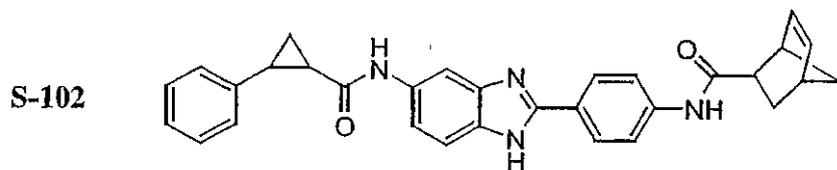
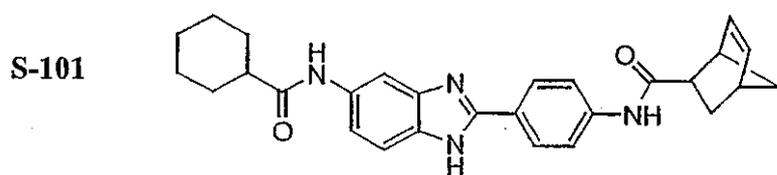
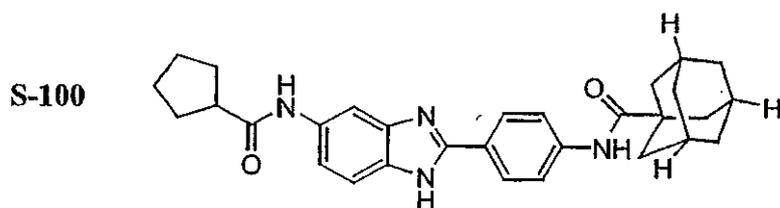
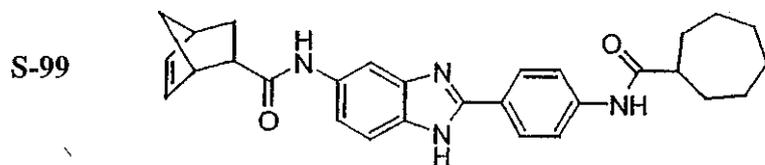
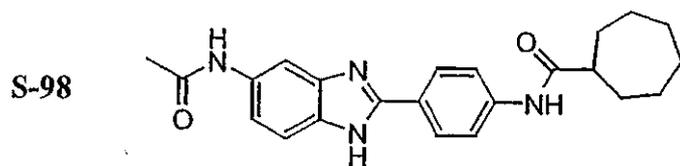
【化 1 1】



【化 1 2】

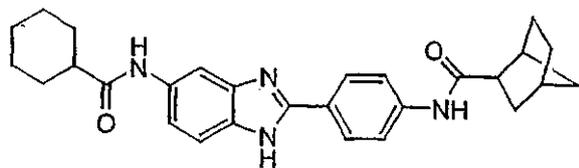


【化 1 3】

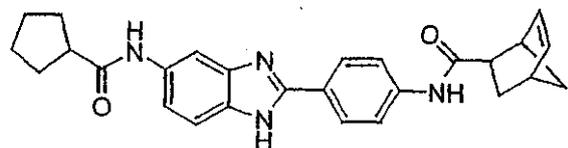


【化 1 4】

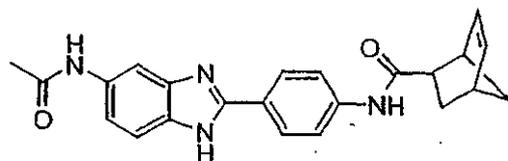
S-105



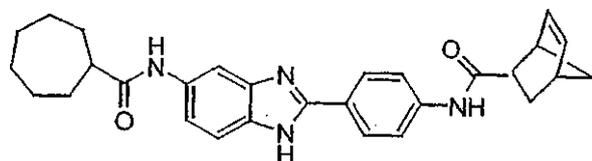
S-106



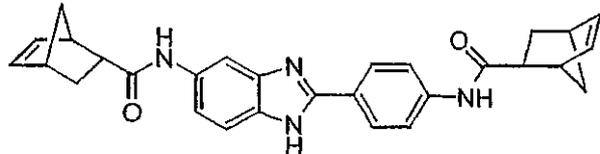
S-107



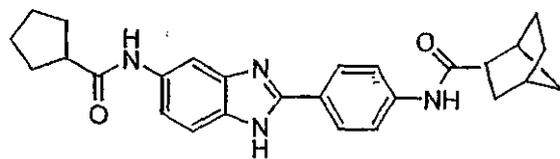
S-108



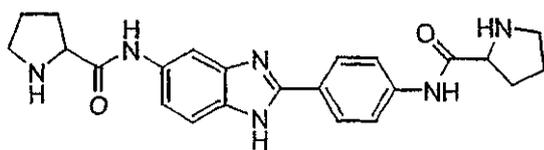
S-109



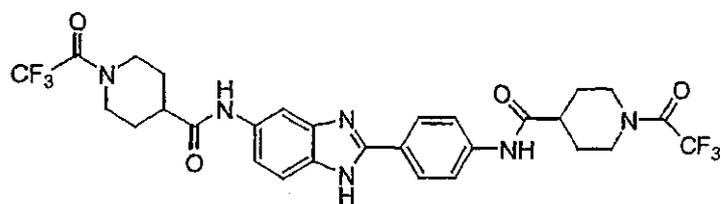
S-110



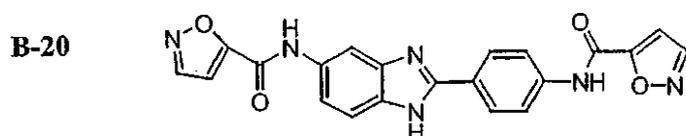
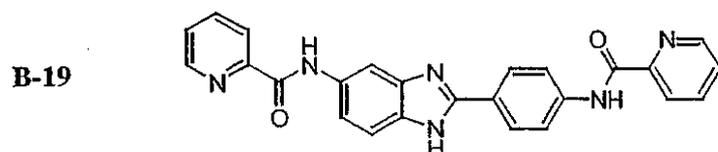
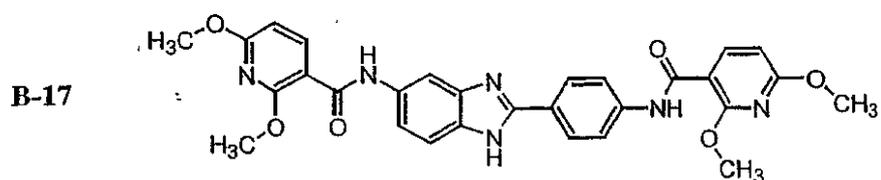
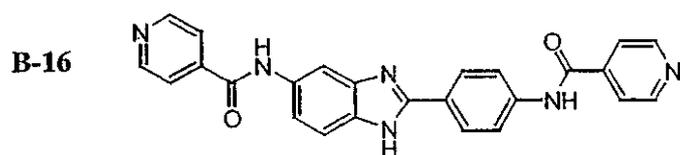
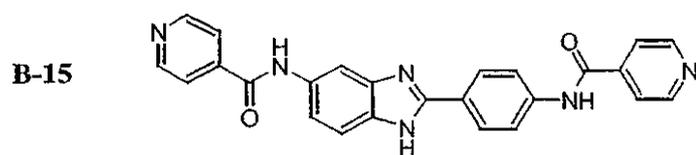
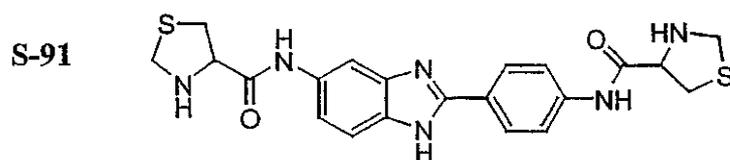
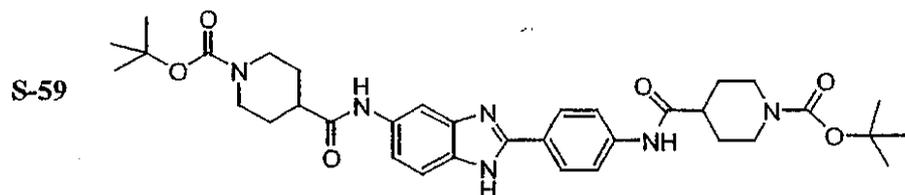
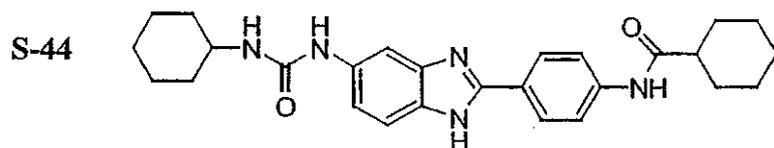
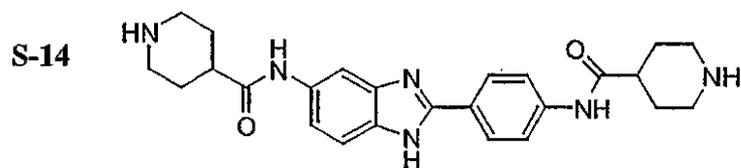
S-6



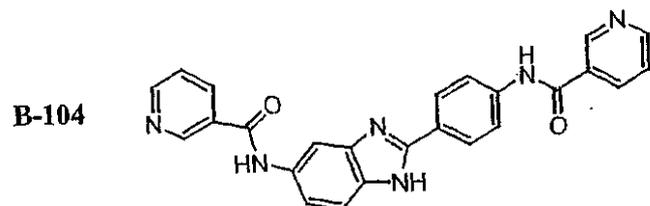
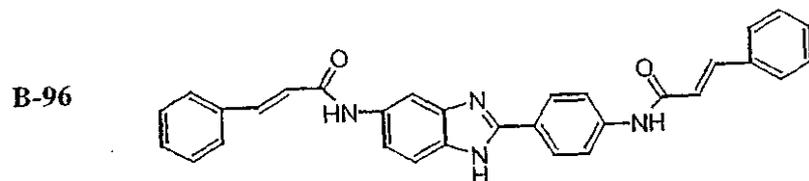
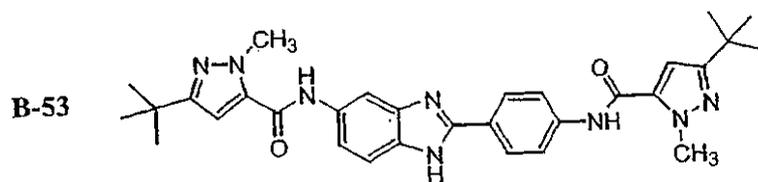
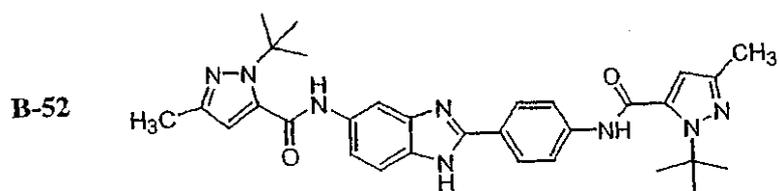
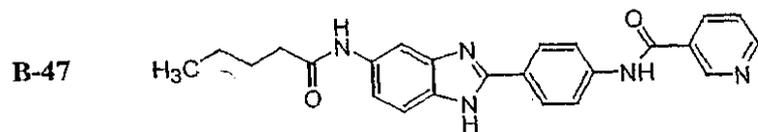
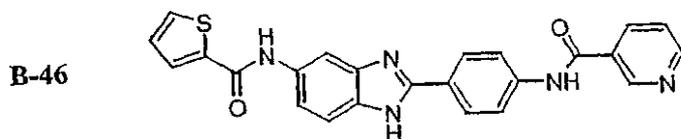
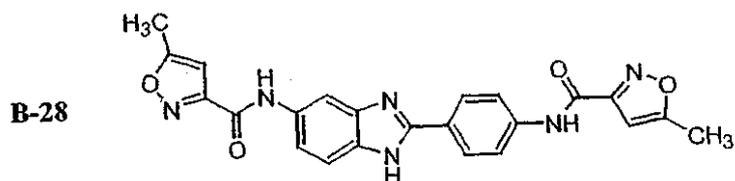
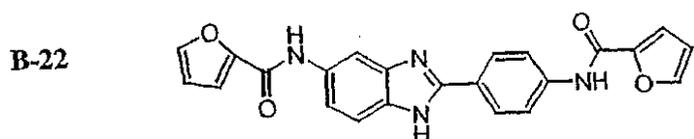
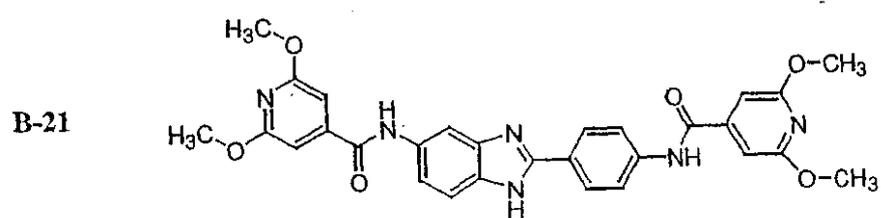
S-7



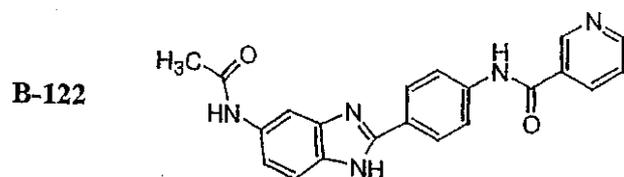
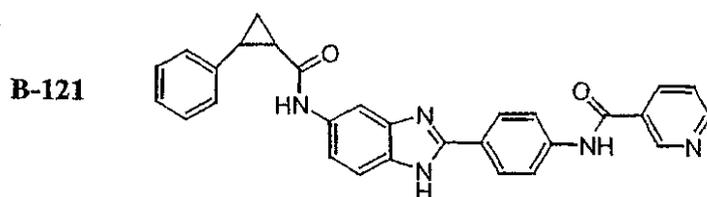
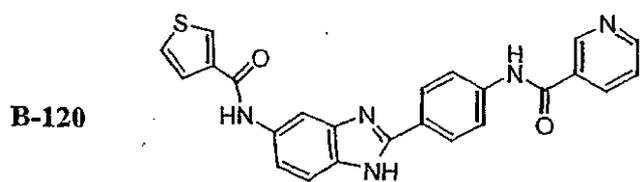
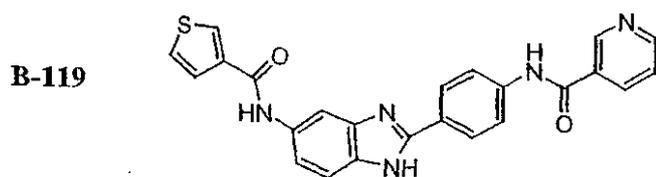
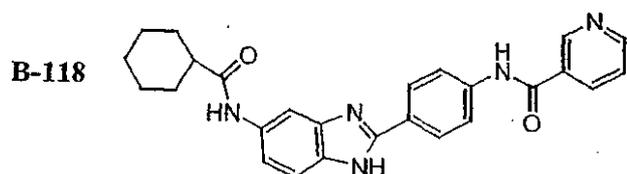
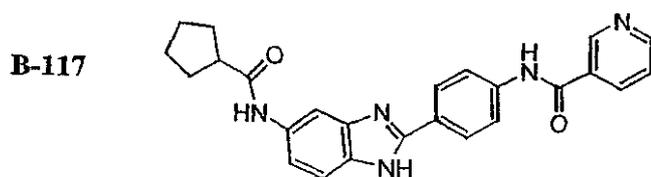
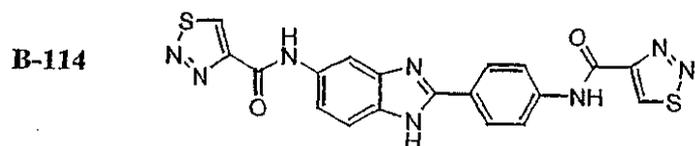
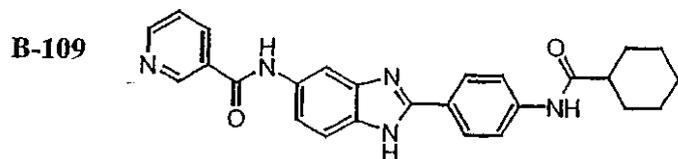
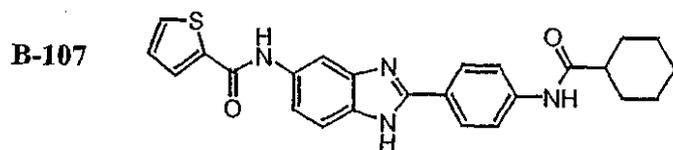
【化 15】



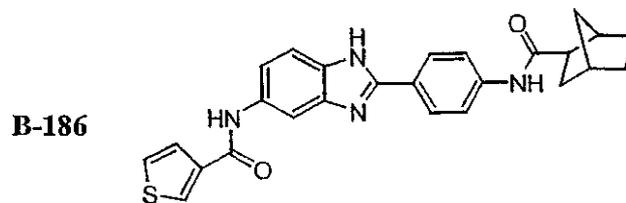
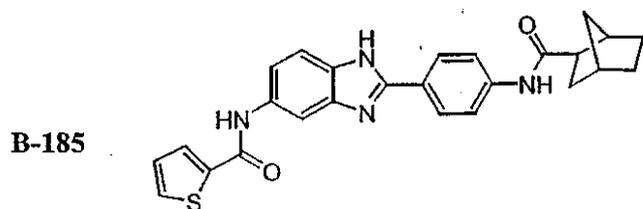
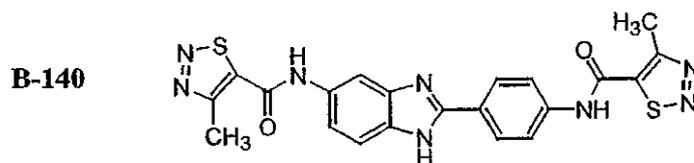
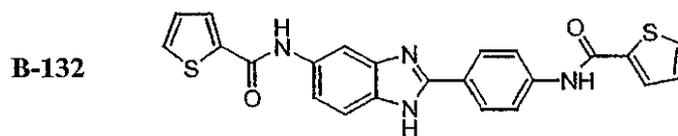
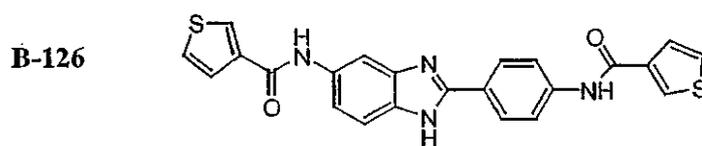
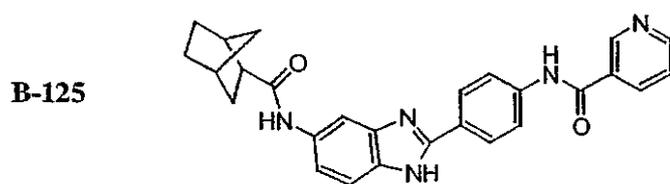
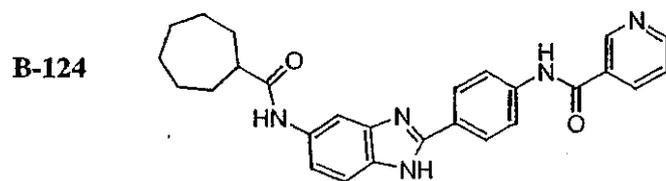
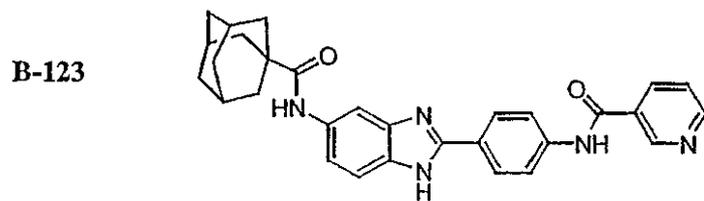
【化 16】



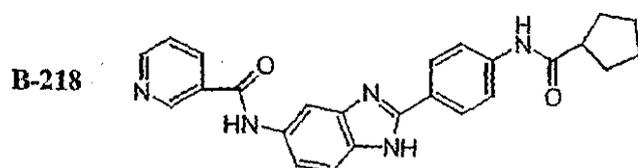
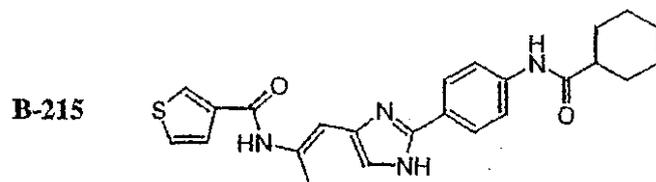
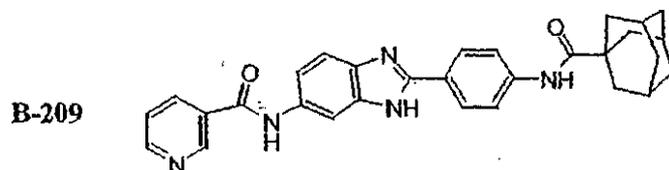
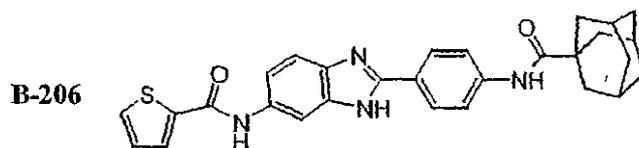
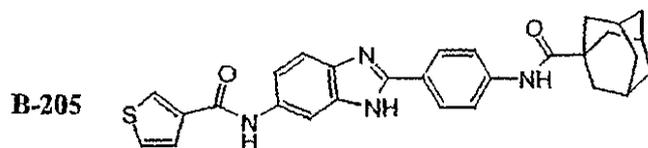
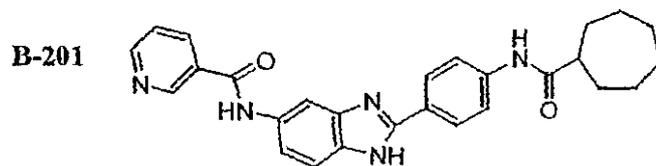
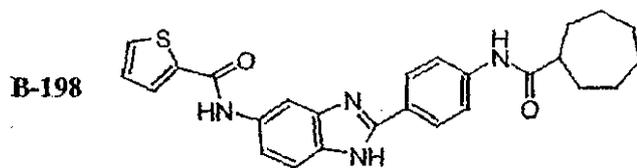
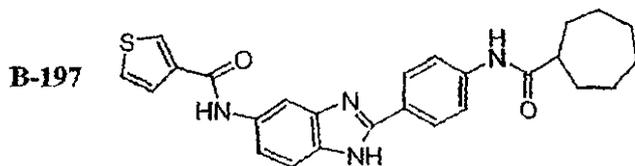
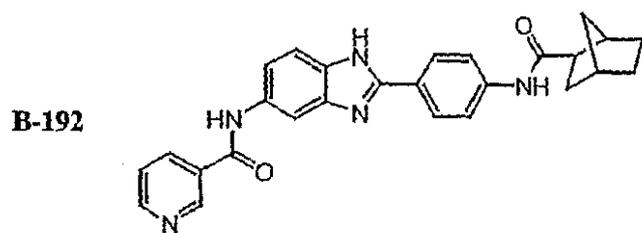
【化 17】



【化 1 8】

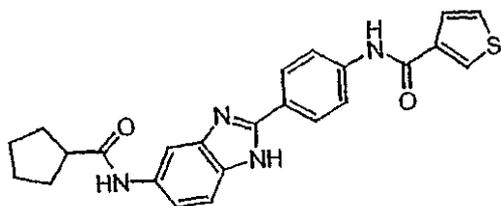


【化 19】

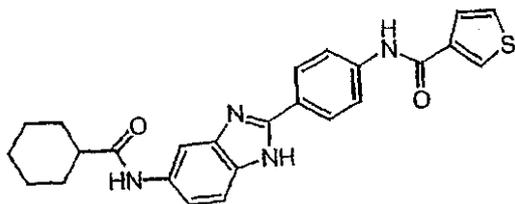


【化 2 0】

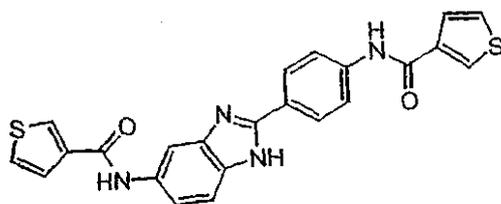
B-229



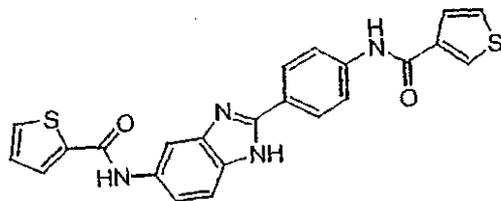
B-230



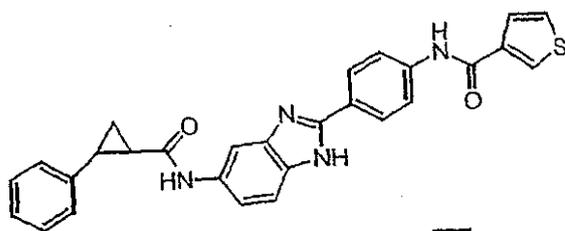
B-231



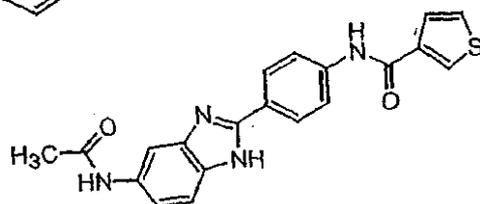
B-232



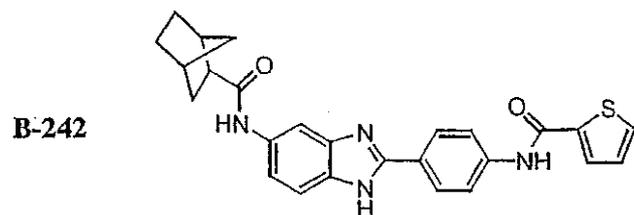
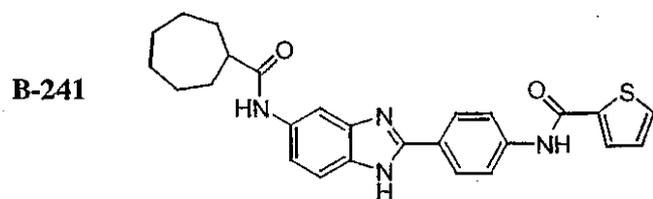
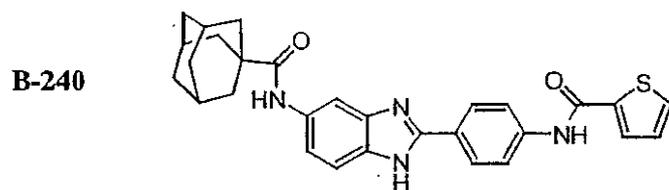
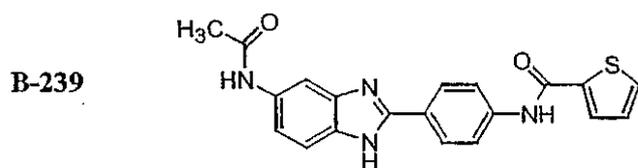
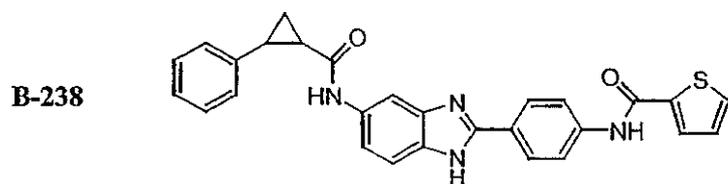
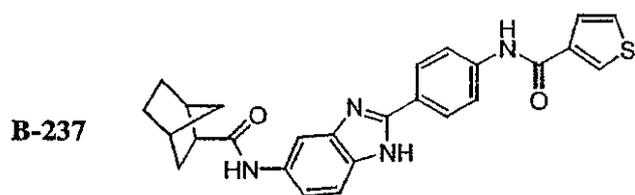
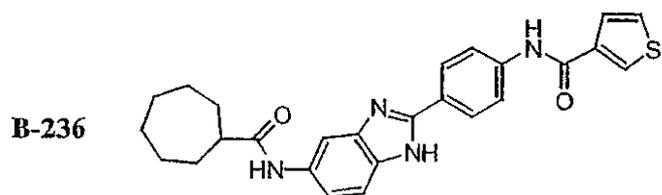
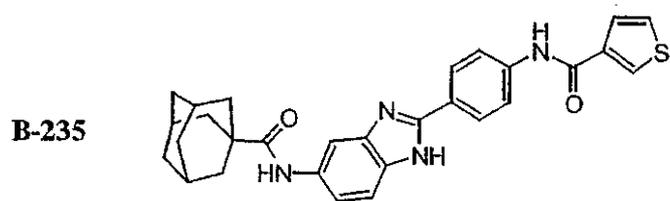
B-233



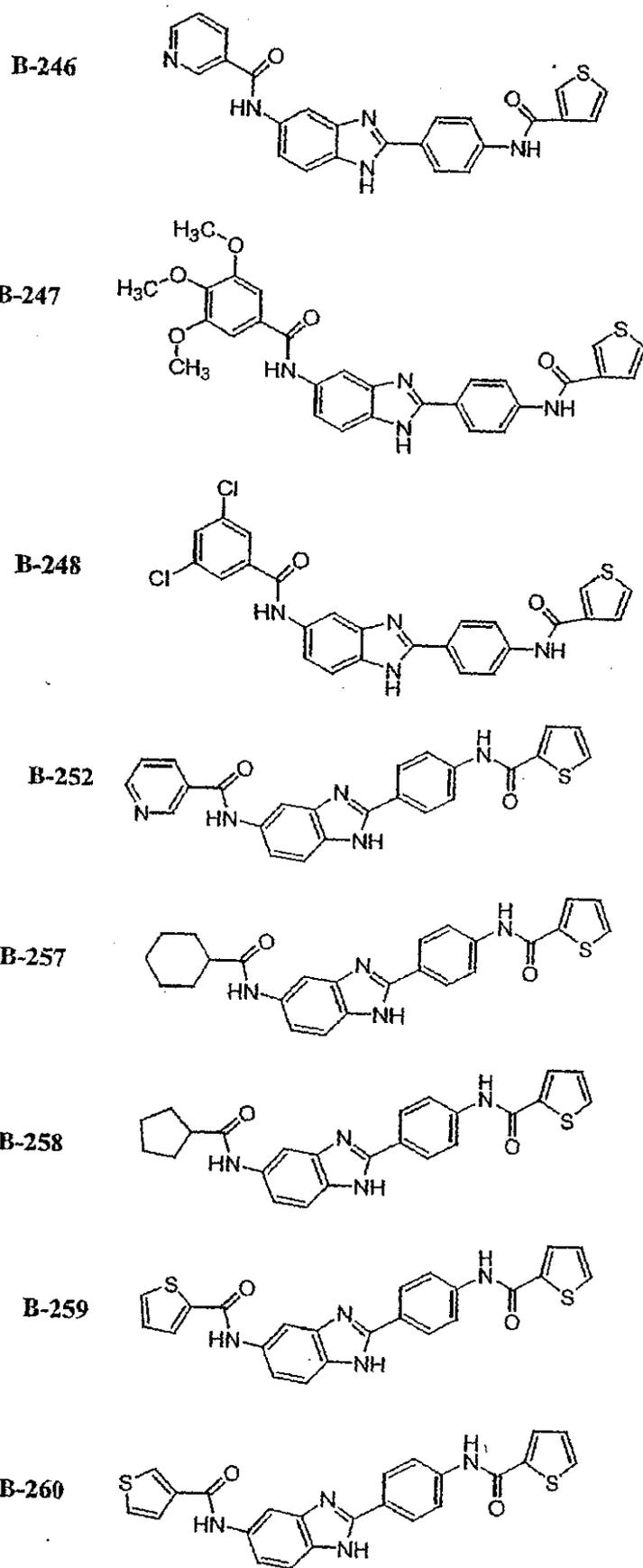
B-234



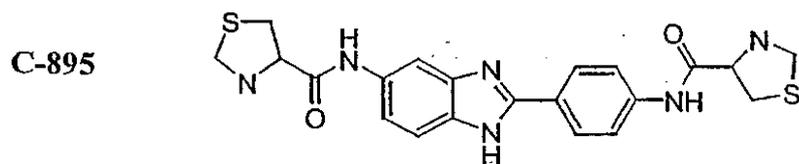
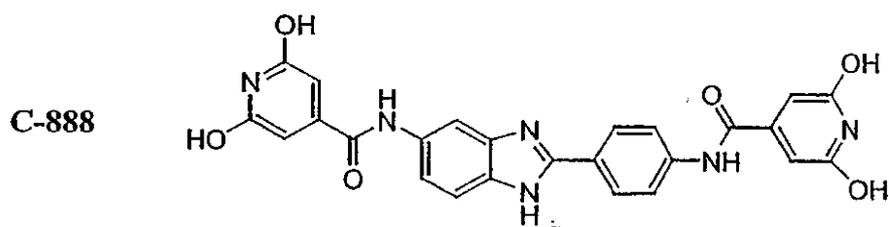
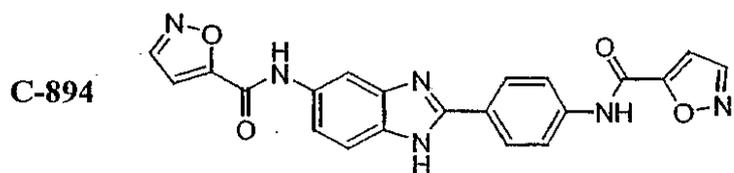
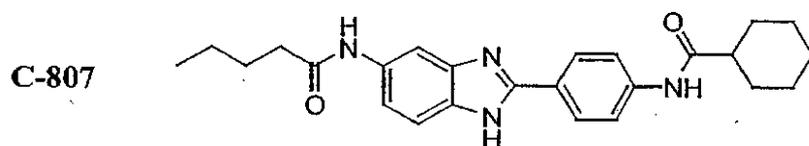
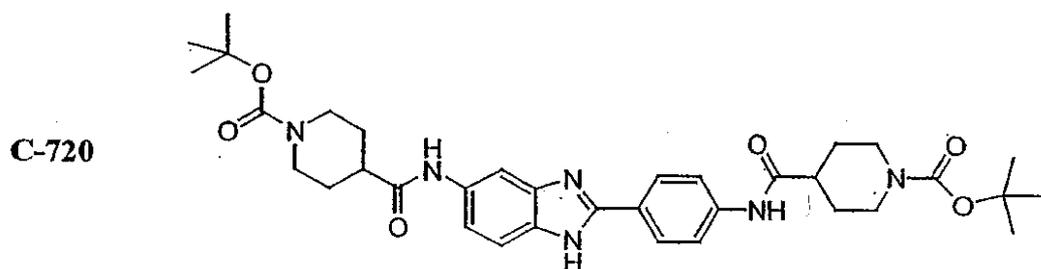
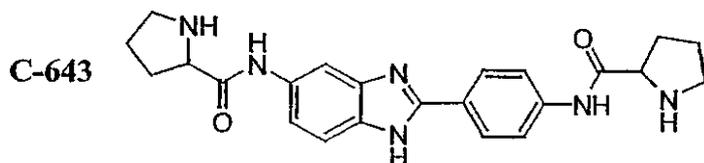
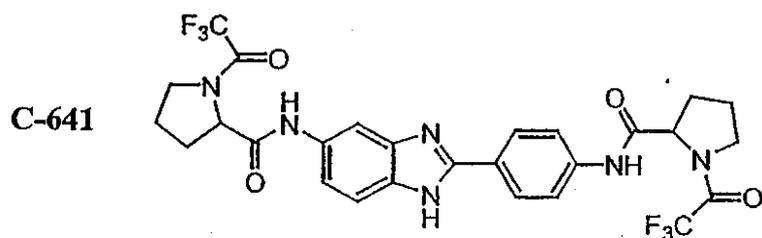
【化 2 1】



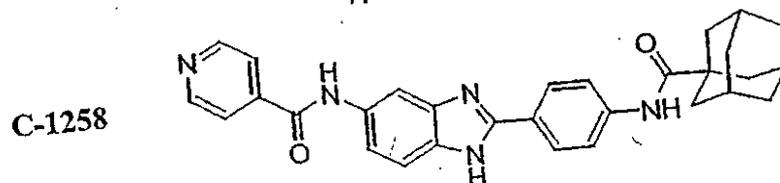
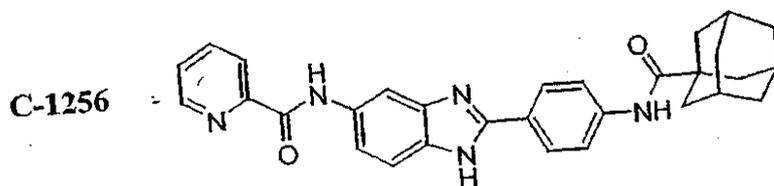
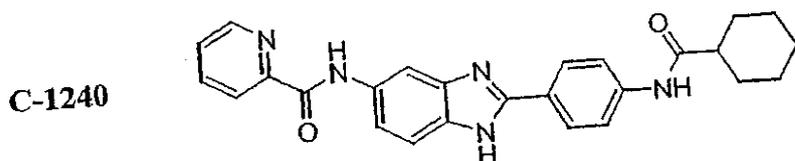
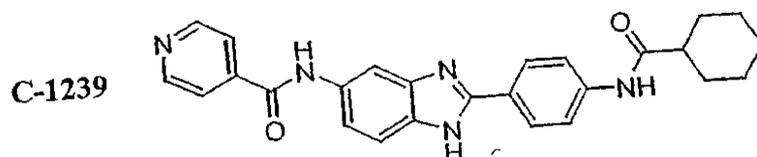
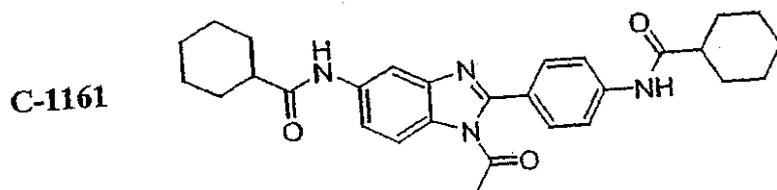
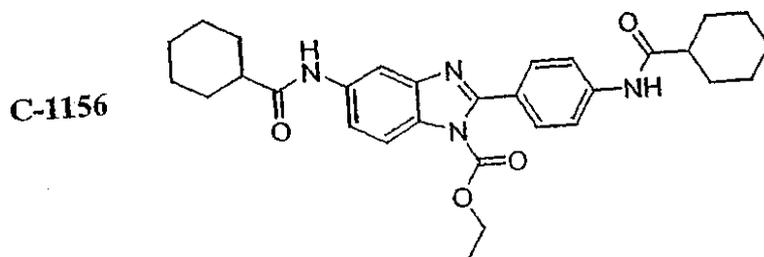
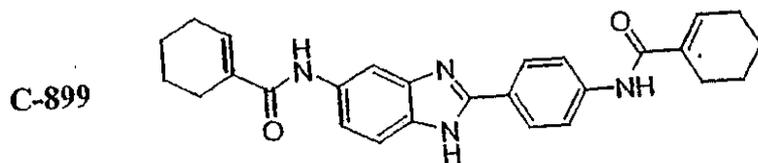
【化 2 2】



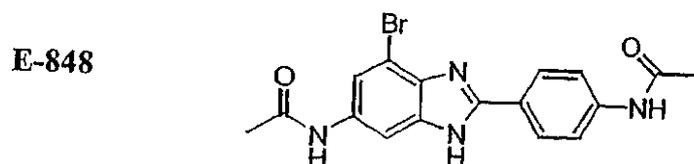
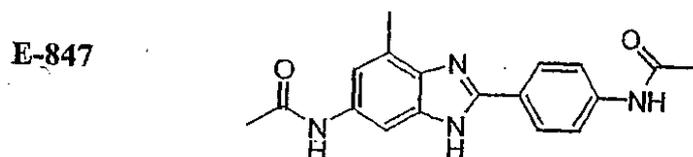
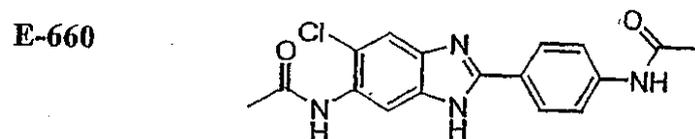
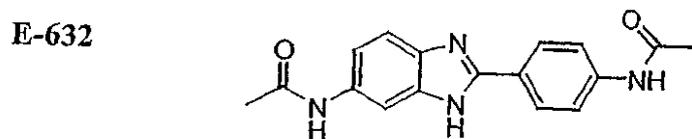
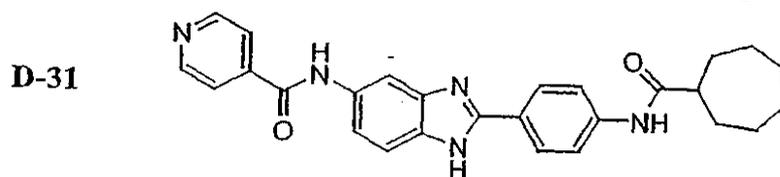
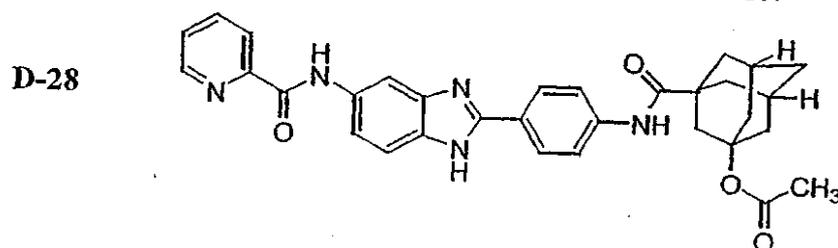
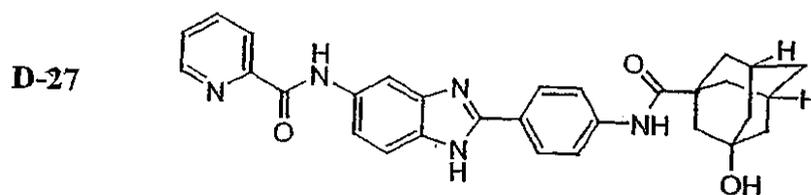
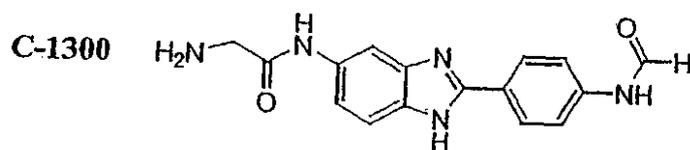
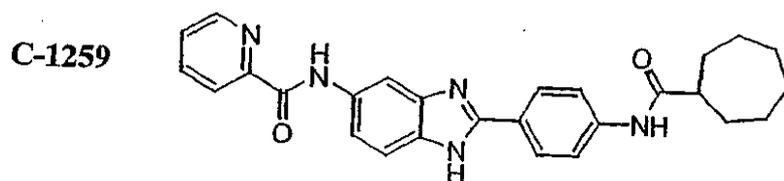
【化 2 3】



【化 2 4】

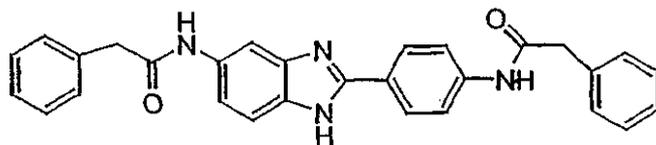


【化 2 5】

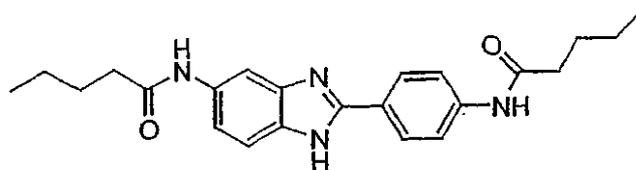


【化 2 6】

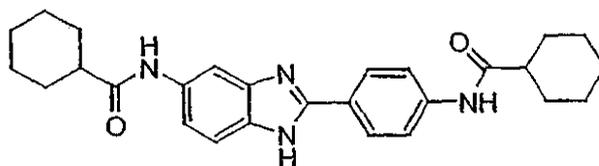
E-878



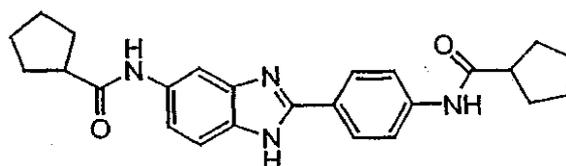
E-879



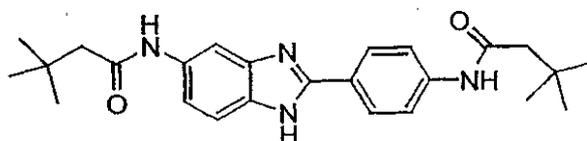
E-893



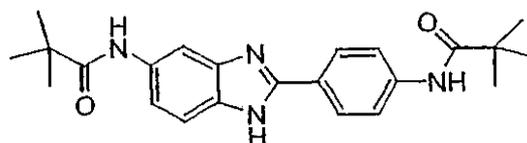
E-915



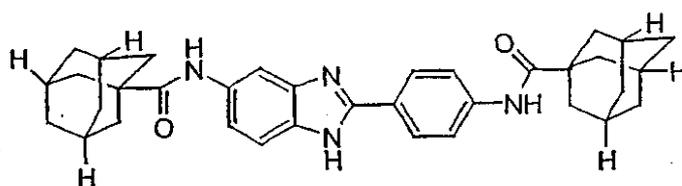
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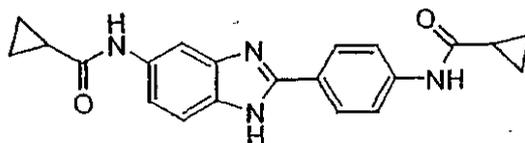
E-922



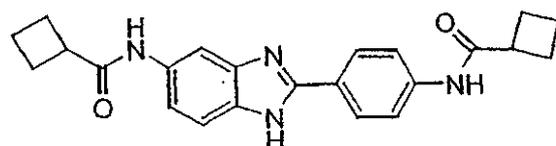
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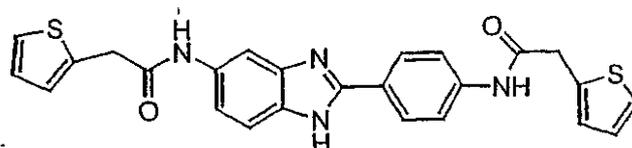
E-925



E-926

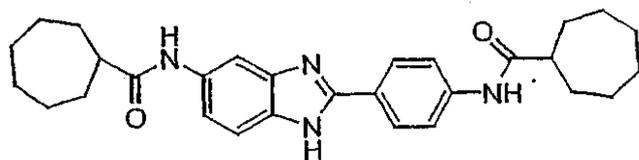


E-927

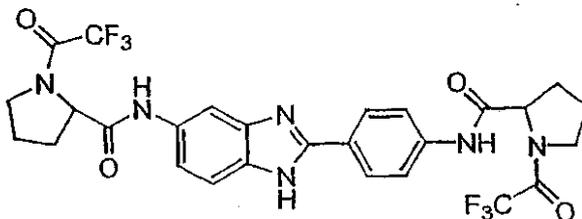


【化 27】

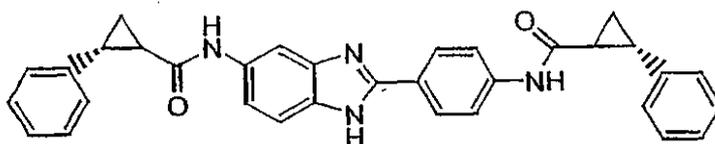
E-928



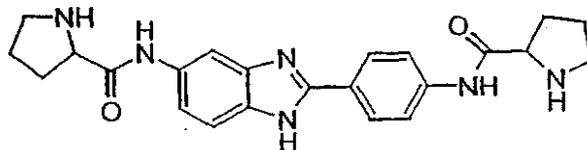
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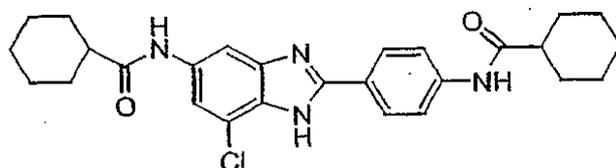
E-930



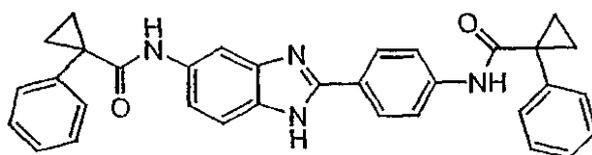
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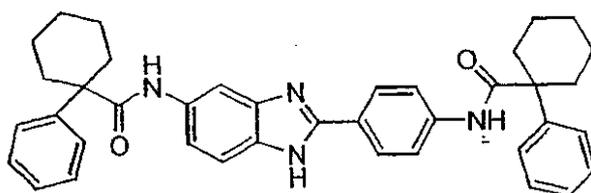
E-932



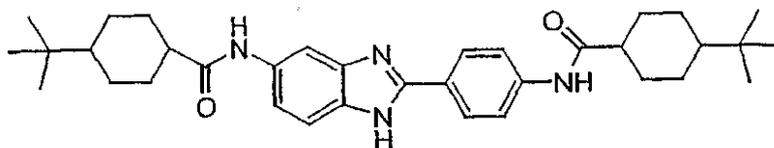
E-933



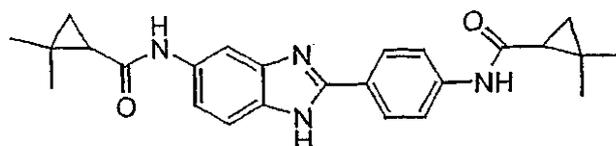
E-934



E-935

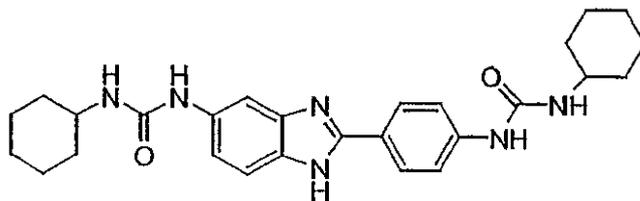


E-951

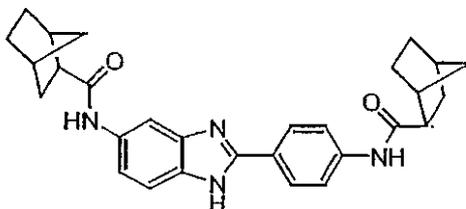


【化 2 8】

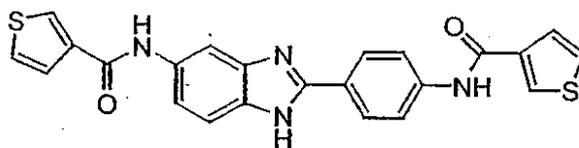
E-952



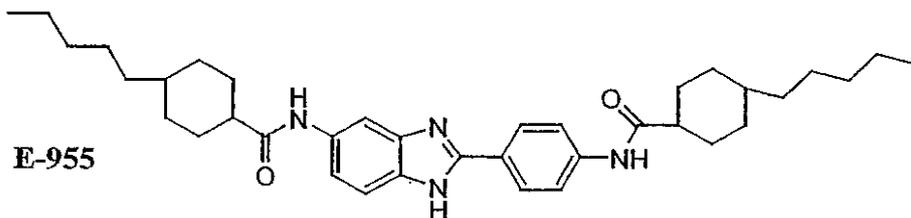
E-953



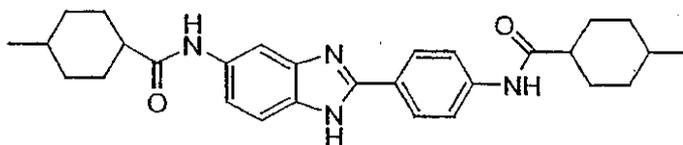
E-954



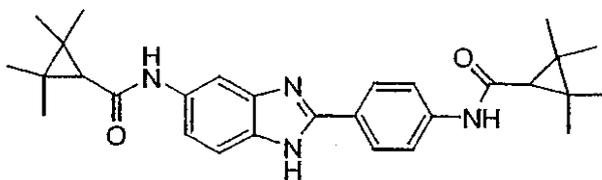
E-955



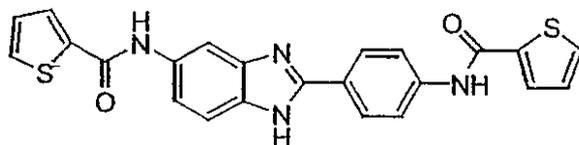
E-13106



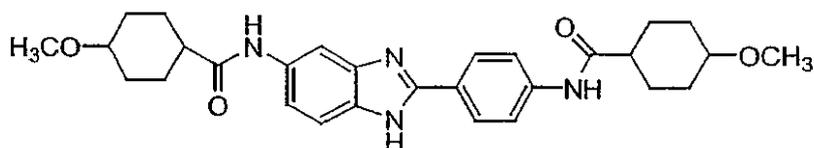
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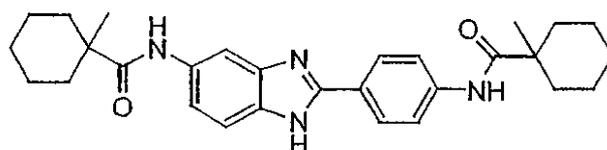
E-13108



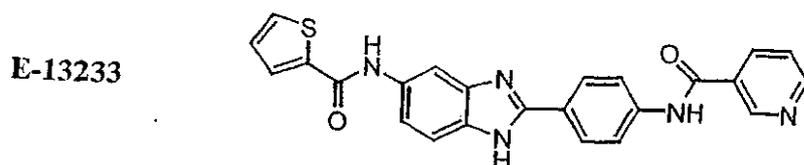
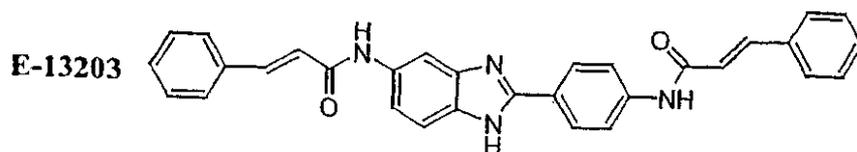
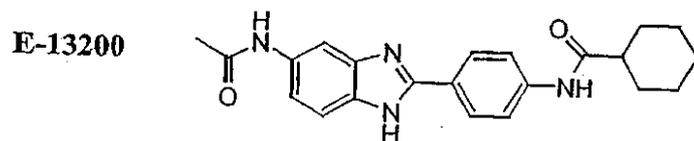
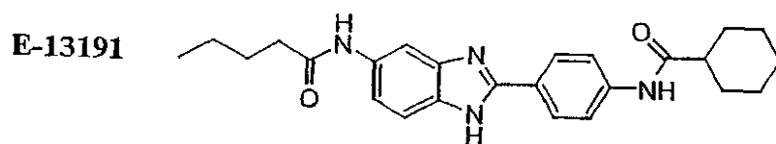
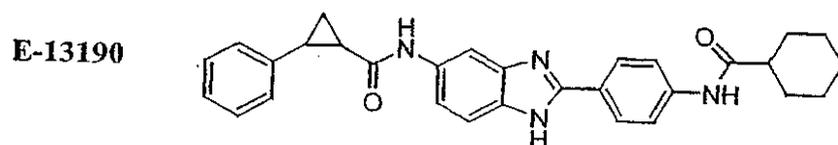
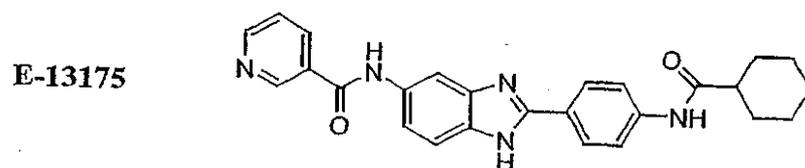
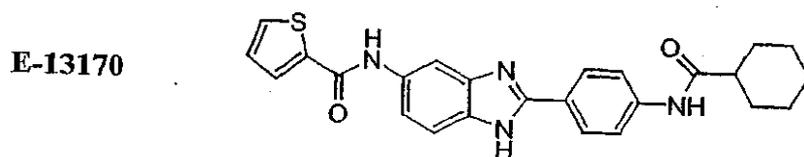
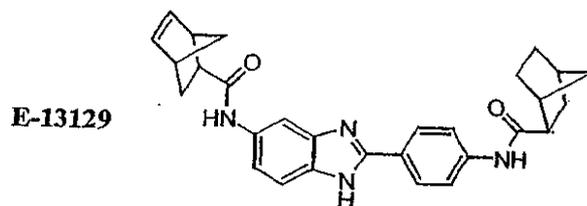
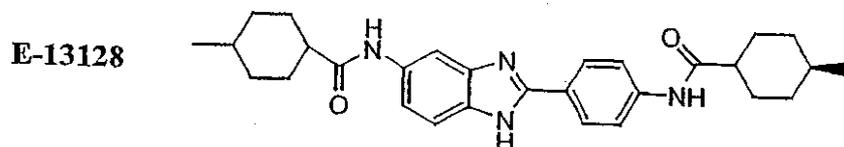
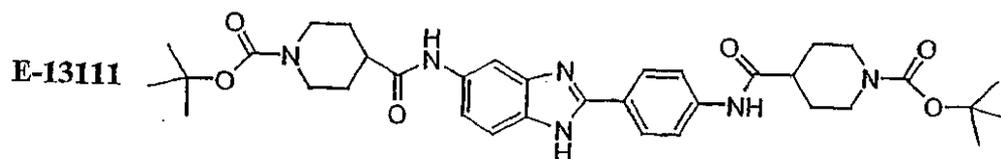
E-13109



E-13110

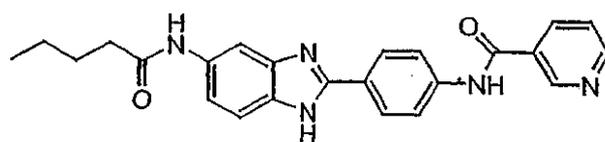


【化 2 9】

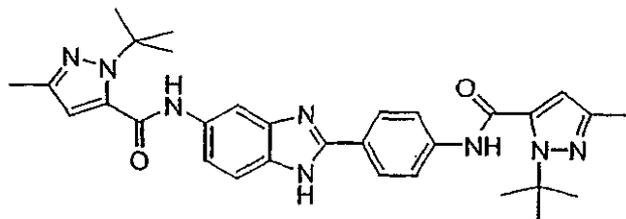


【化 3 0】

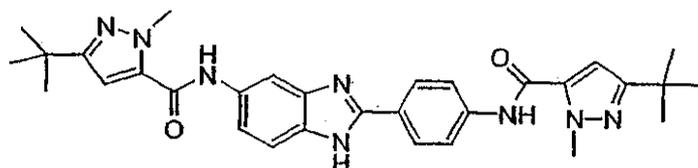
E-13234



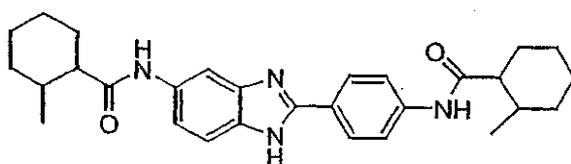
E-13238



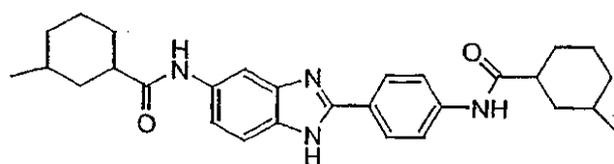
E-13239



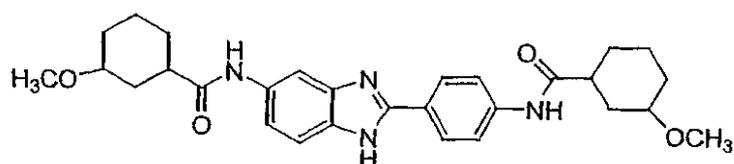
E-13240



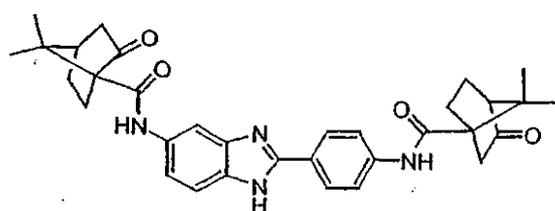
E-13241



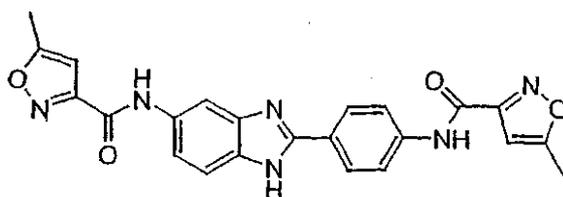
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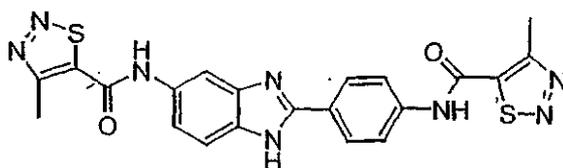
E-13243



E-13248

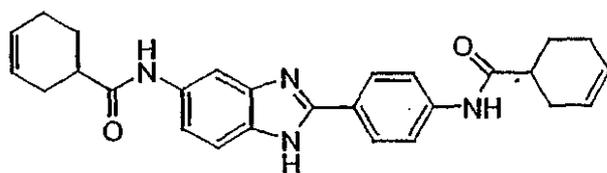


E-13249

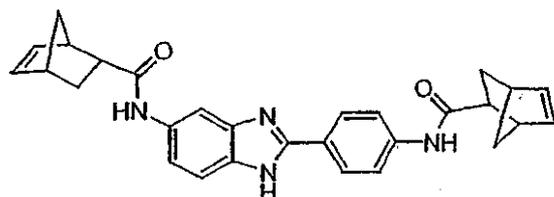


【化 3 1】

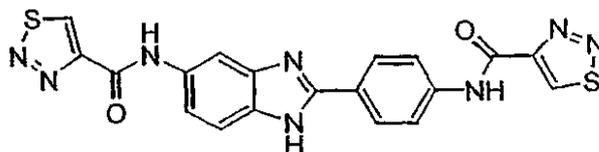
E-13254



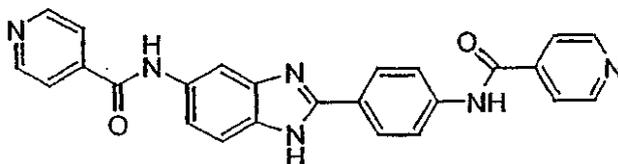
E-13255



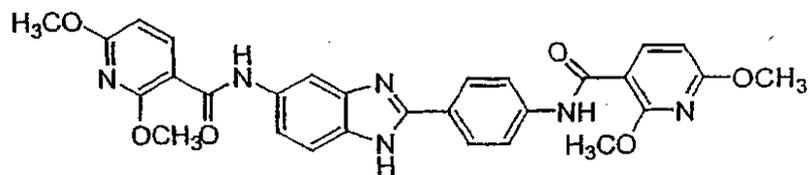
E-13256



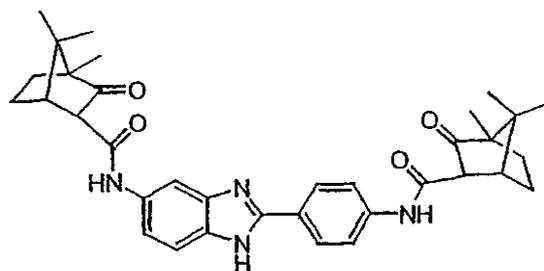
E-13259



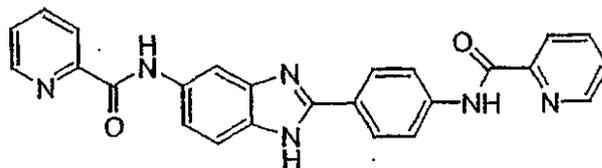
E-13260



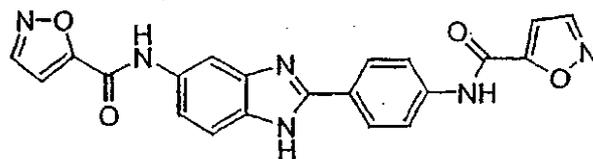
E-13261



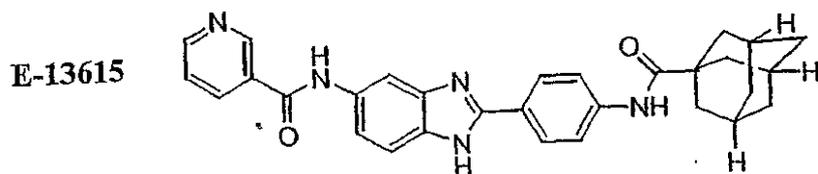
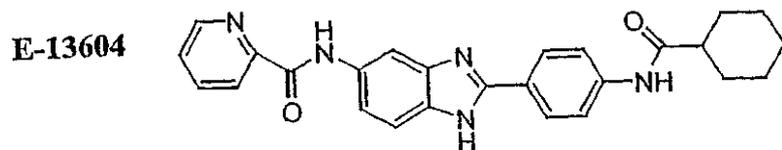
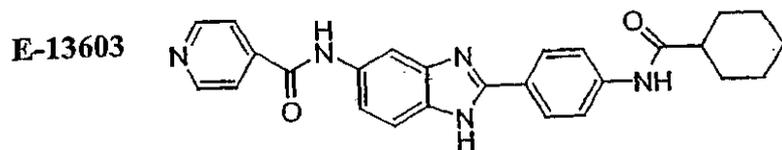
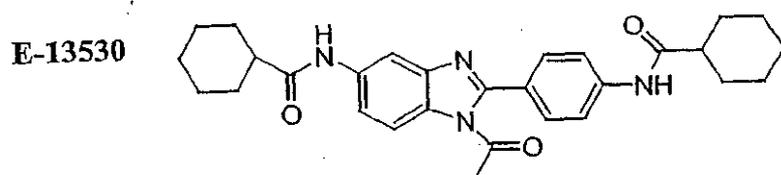
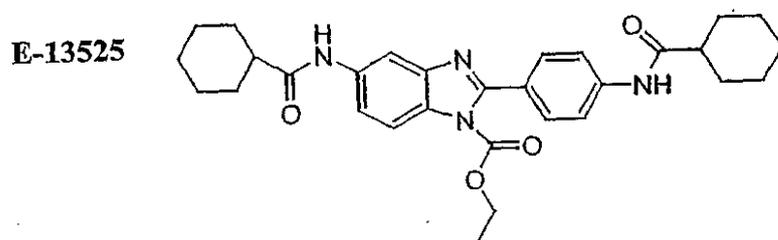
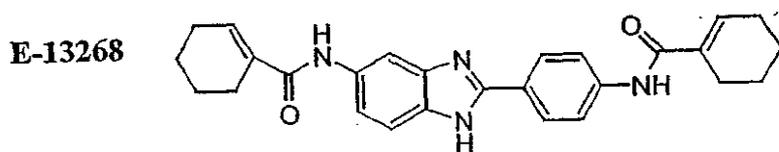
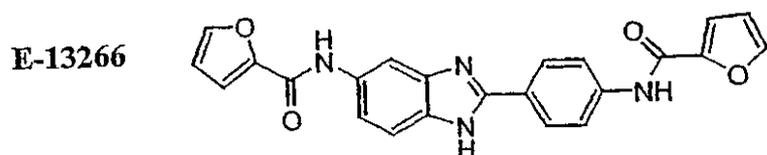
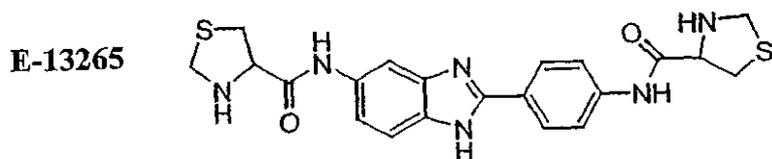
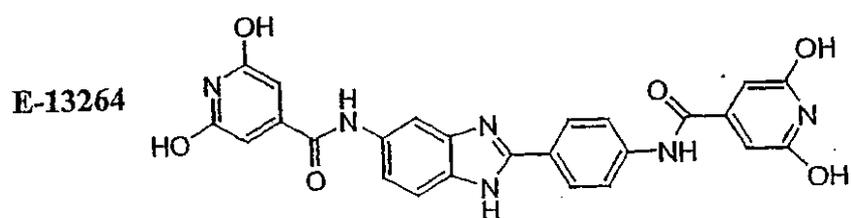
E-13262



E-13263

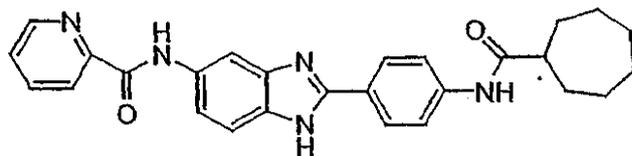


【化 3 2】

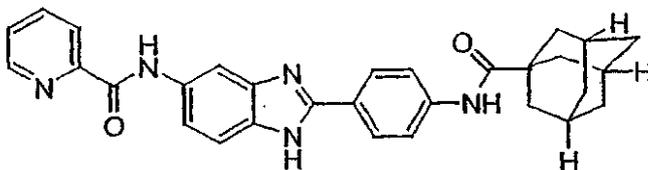


【化 3 3】

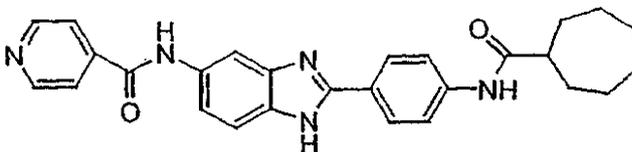
E-13617



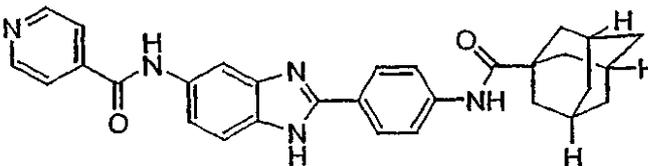
E-13619



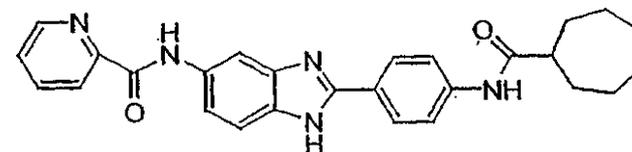
E-13620



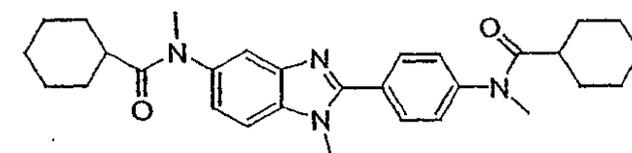
E-13621



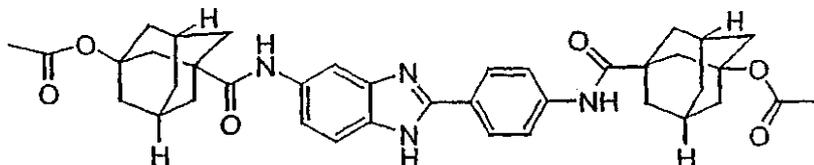
E-13622



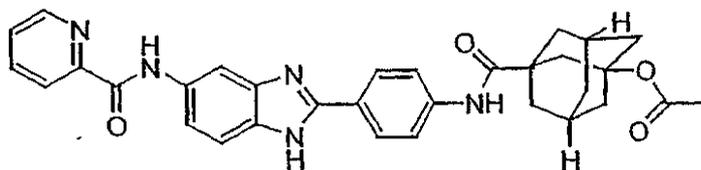
E-13630



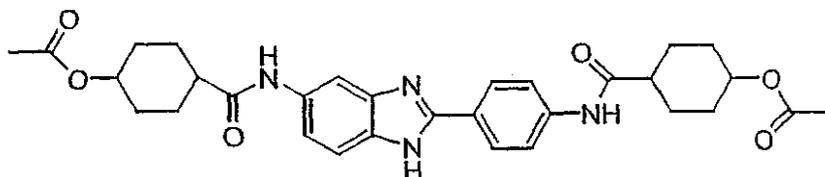
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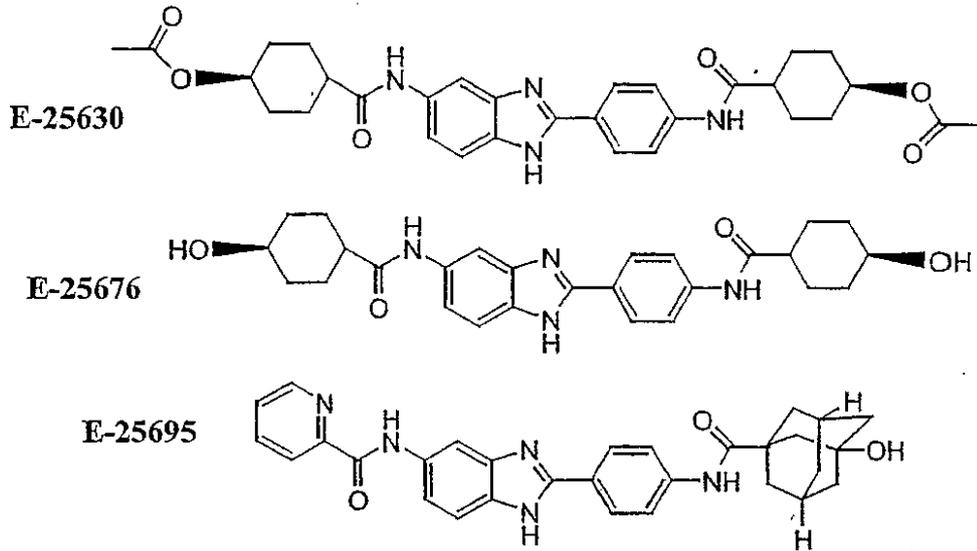
E-13823



E-13824



【化34】

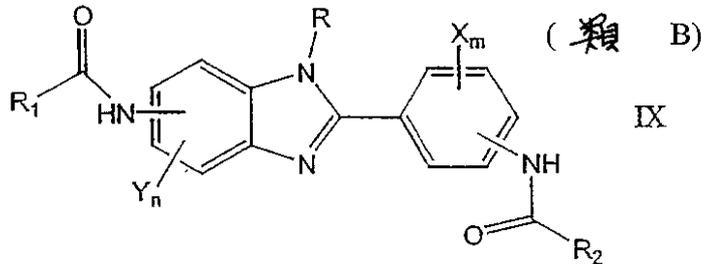


からなる群から選択される、請求項1に記載の使用。

【請求項3】

癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用であって、前記化合物は、式

【化35】



を有し、

XおよびYは、異なるかまたは同じであり、H、ハロゲン、アルキル、アルコキシ、アリール、置換アリール、ヒドロキシ、アミノ、アルキルアミノ、シクロアルキル、モルホリン、チオモルホリン、ニトロ、シアノ、 CF_3 、 OCF_3 、 COR_1 、 $COOR_1$ 、 $CONH_2$ 、 $CONHR_1$ 、および $NHCOR_1$ からなる群から個々に選択され、

nは1～3の整数であり、

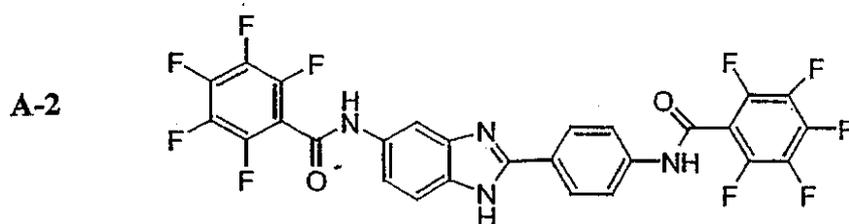
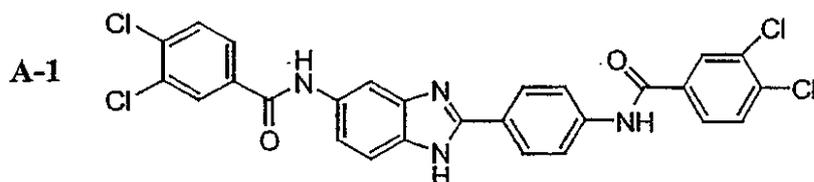
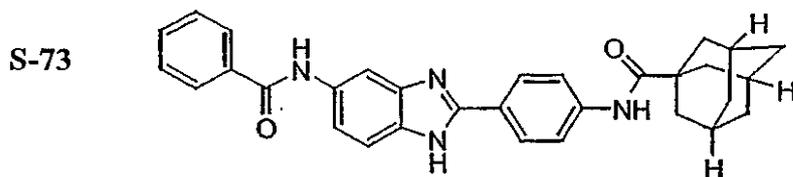
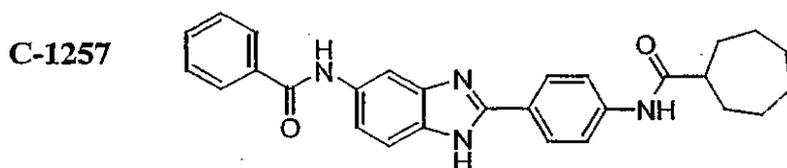
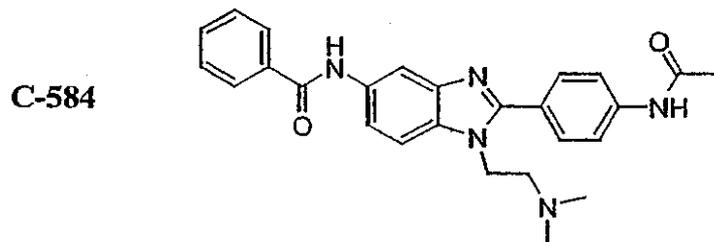
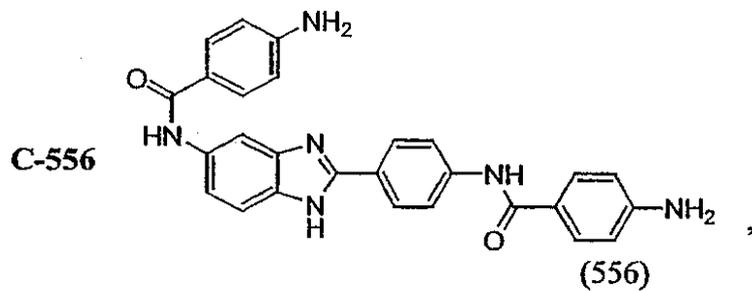
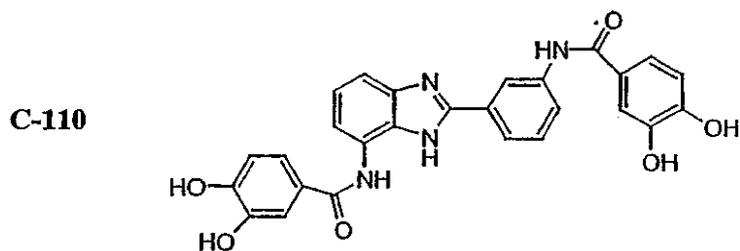
mは1～4の整数であり、

Rは、H、 CH_3 、 C_2H_5 、 C_3H_7 、 C_4H_9 、 CH_2Ph 、 $CH_2C_6H_4-F(p-)$ 、 $COCH_3$ 、 $COCH_2CH_3$ 、 $CH_2CH_2N(CH_3)_2$ 、および $CH_2CH_2CH_2N(CH_3)_2$ からなる群から選択され、

R_1 および R_2 は、H、アルキル、置換アルキル、アルケニル、置換アルケニル、アルキニル、置換アルキニル、シクロアルキル、置換シクロアルキル、シクロアルケニル、置換シクロアルケニル、ポリシクロアルキル、置換ポリシクロアルキル、ポリシクロアルケニル、置換ポリシクロアルケニル、アリールアルキル、置換アリールアルキル、ヘテロアリールアルキル、置換ヘテロアリールアルキル、アリールシクロアルキル、置換アリールシクロアルキル、ヘテロアリールシクロアルキル、置換ヘテロアリールシクロアルキル、ヘテロ環、置換ヘテロ環、ヘテロ原子、置換ヘテロ原子、アリール、および置換アリールからなる群から個々に選択され、

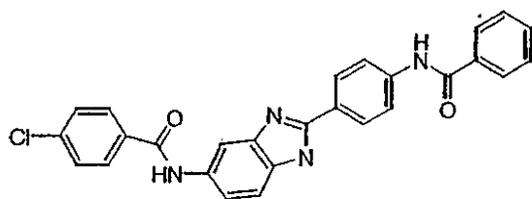
R_1 および R_2 の少なくとも1つはアリールまたは置換アリールから選択される、癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用。

【請求項4】
前記化合物は、
【化36】

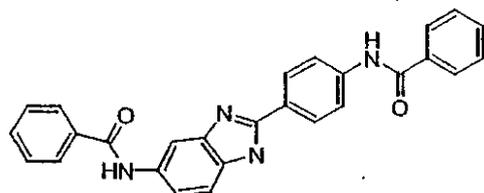


【化 3 7】

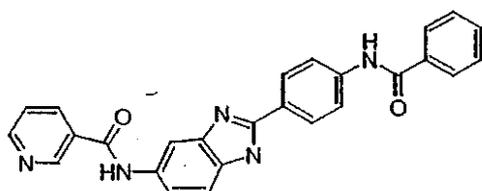
B-1



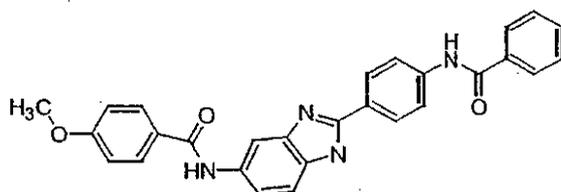
B-2



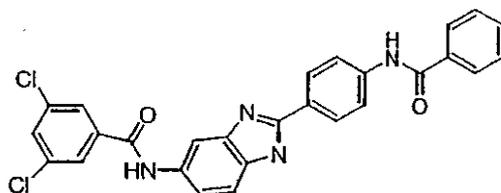
B-3



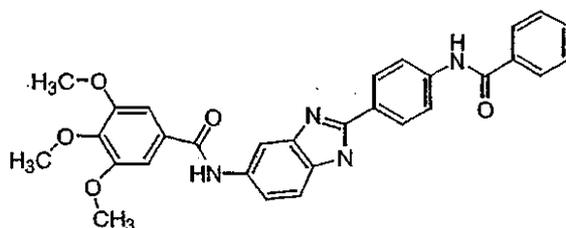
B-4



B-5

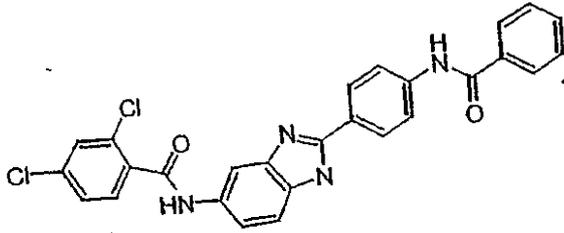


B-6

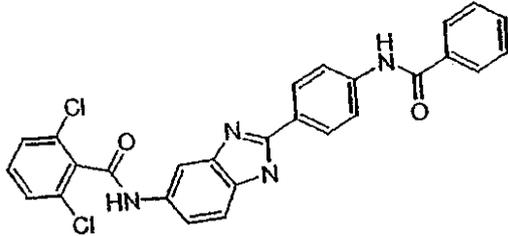


【化 3 8】

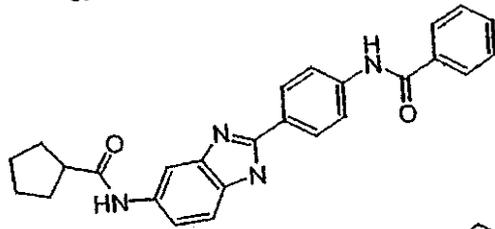
B-7



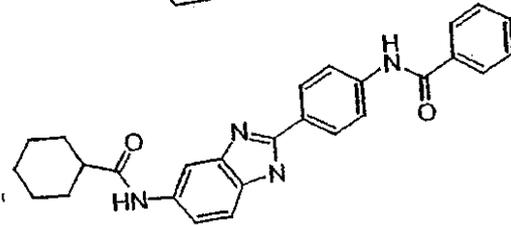
B-8



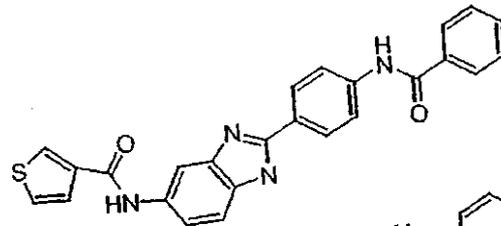
B-9



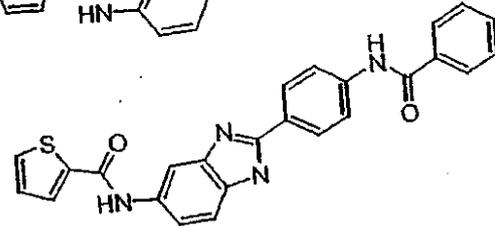
B-10



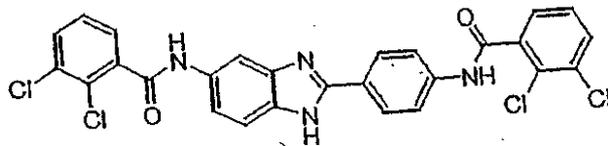
B-11



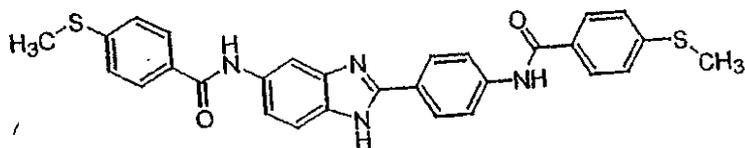
B-12



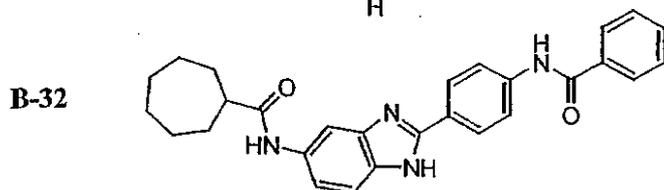
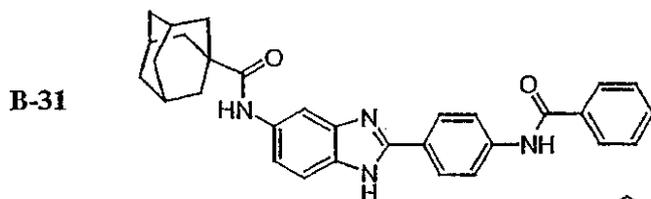
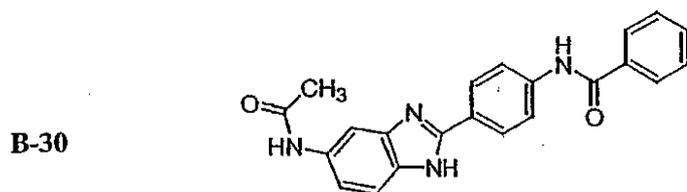
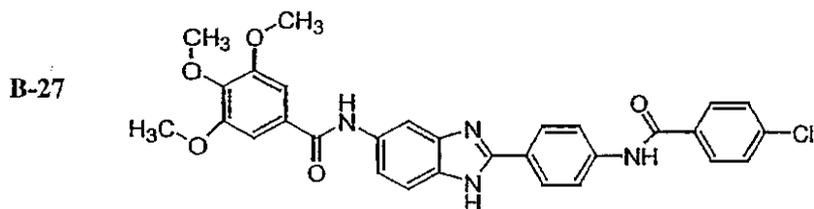
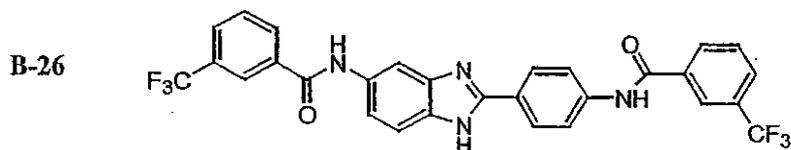
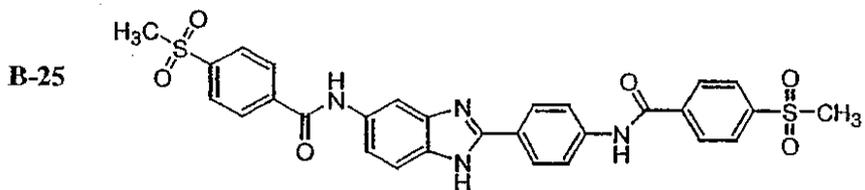
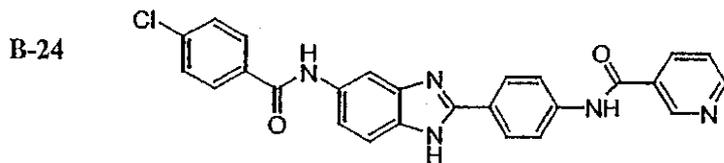
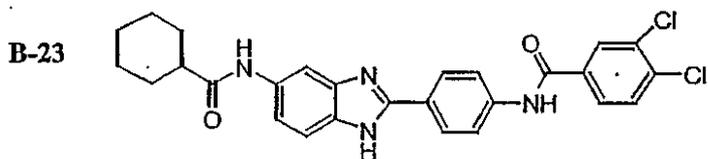
B-13



B-14

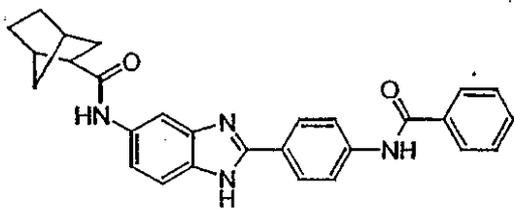


【化 3 9】

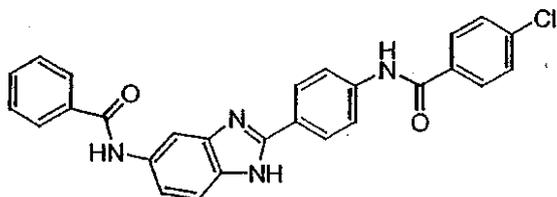


【化 4 0】

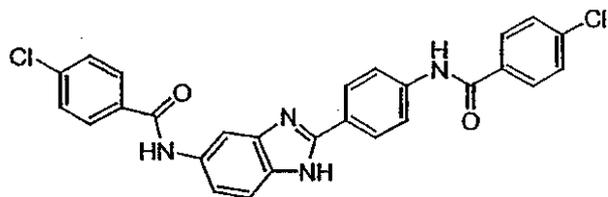
B-33



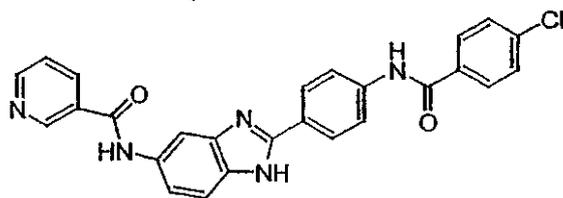
B-34



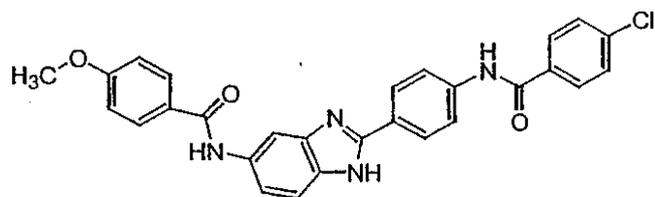
B-35



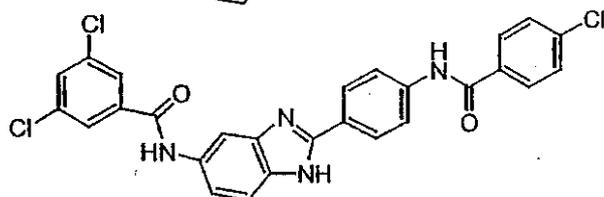
B-36



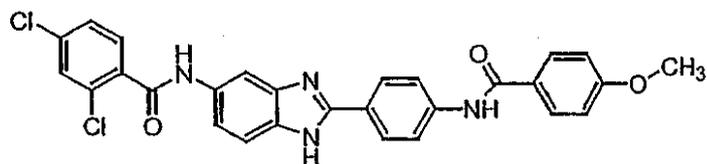
B-37



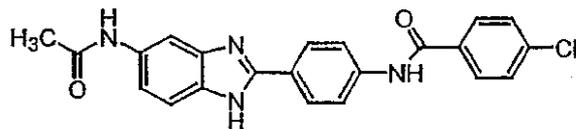
B-38



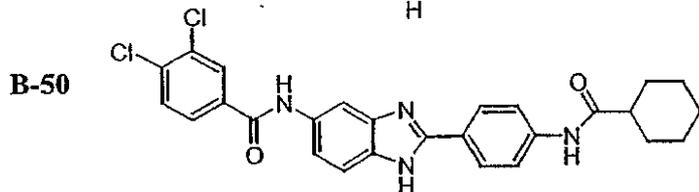
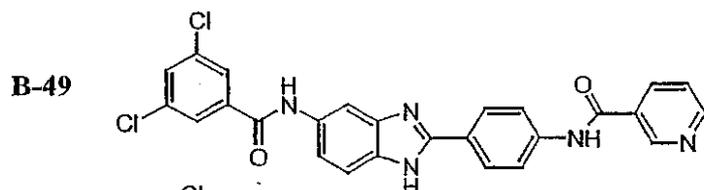
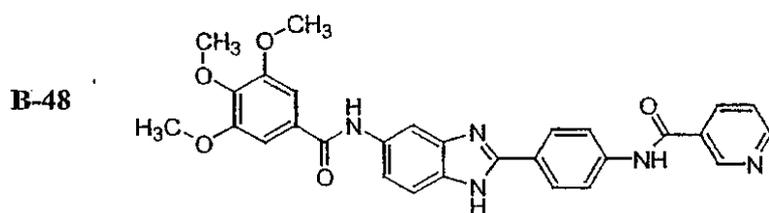
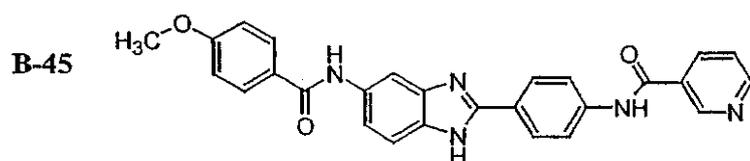
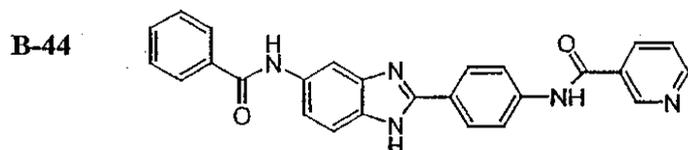
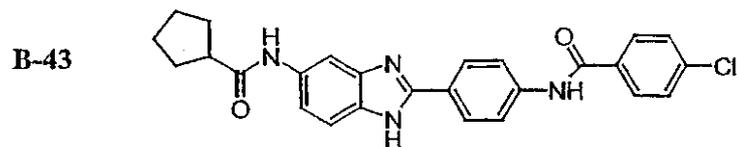
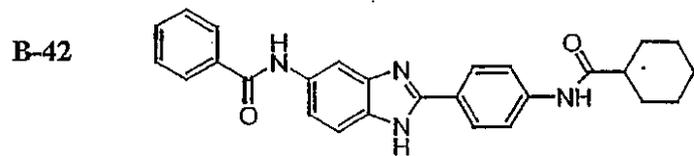
B-40



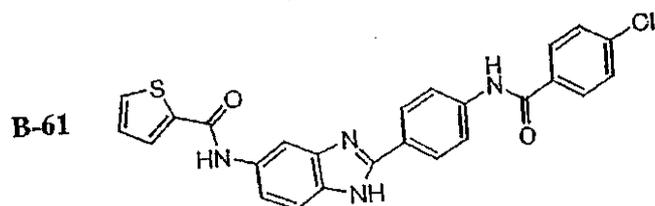
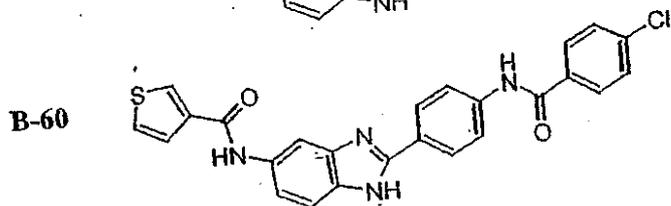
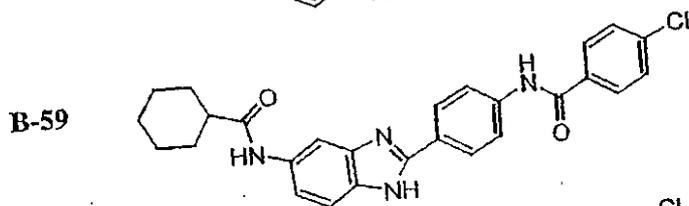
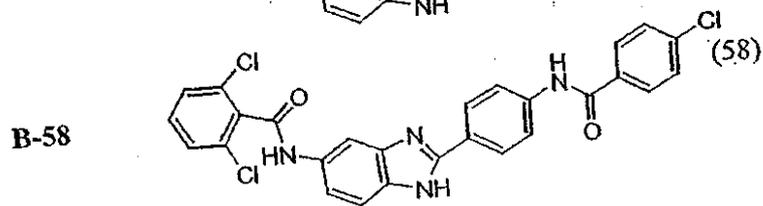
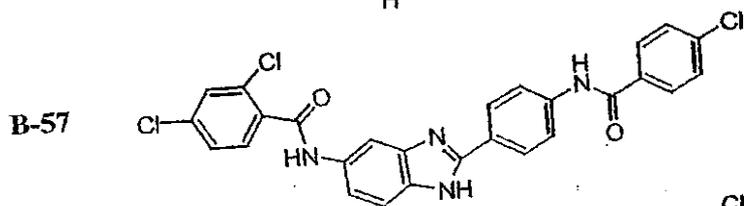
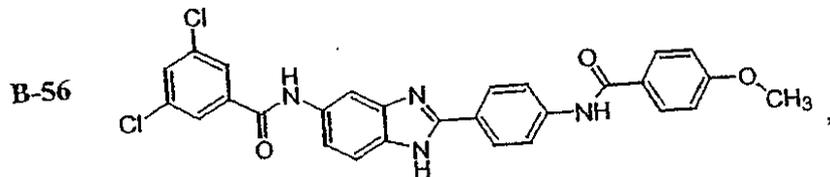
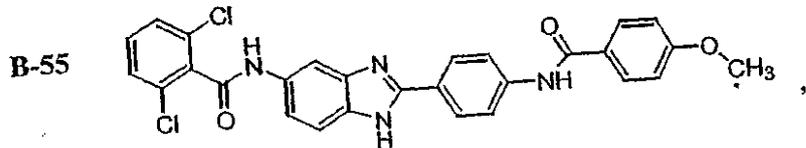
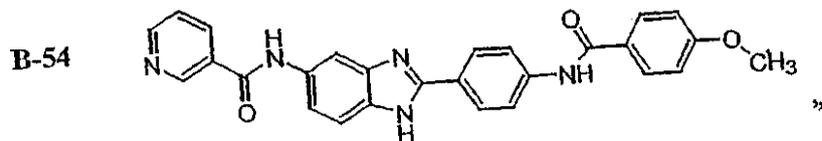
B-41



【化 4 1】

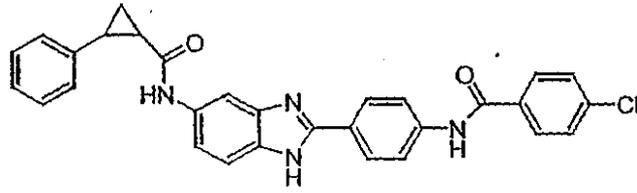


【化 4 2】

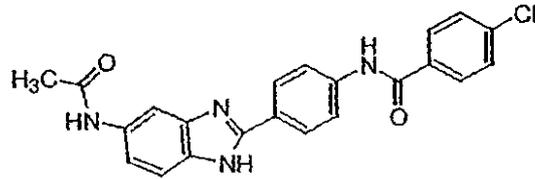


【化 4 3】

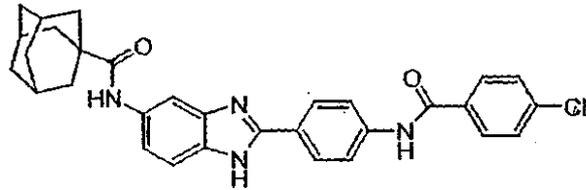
B-62



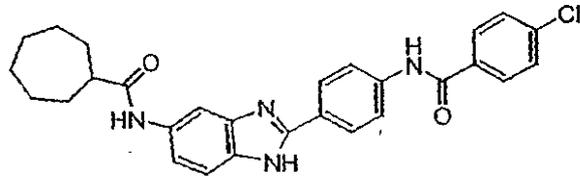
B-63



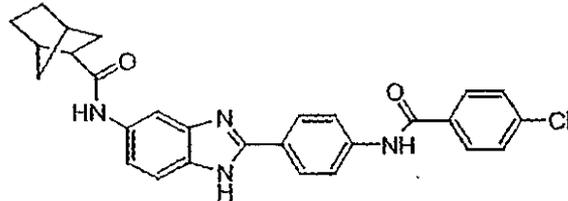
B-64



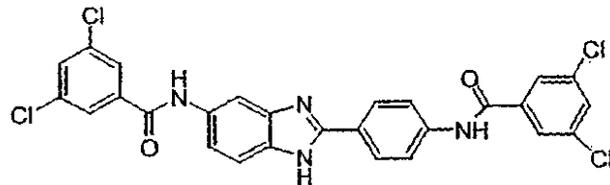
B-65



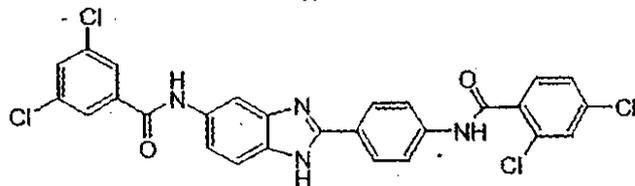
B-66



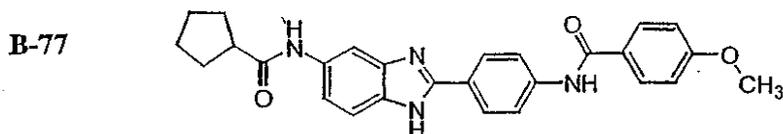
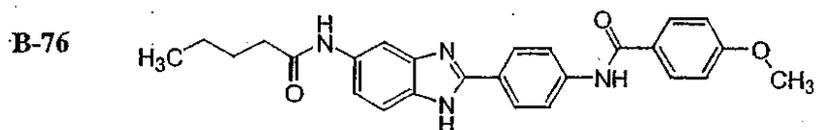
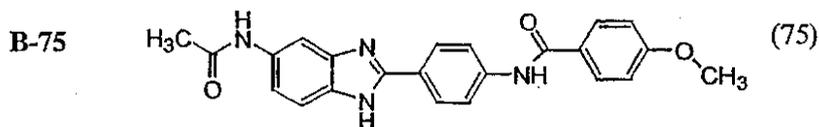
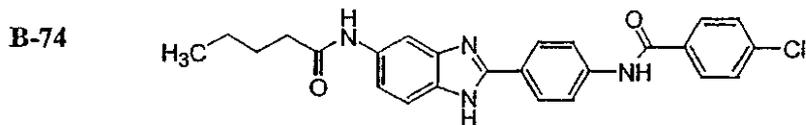
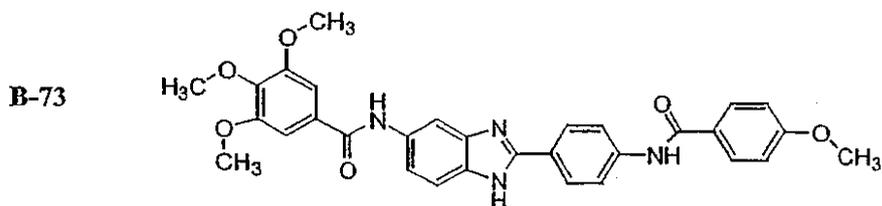
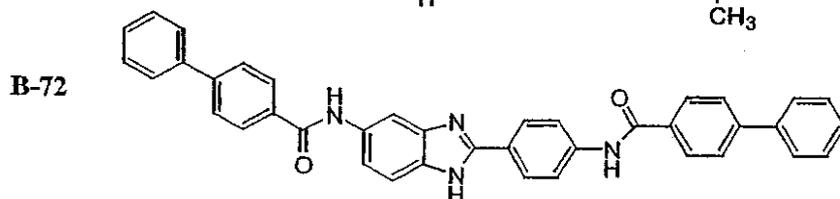
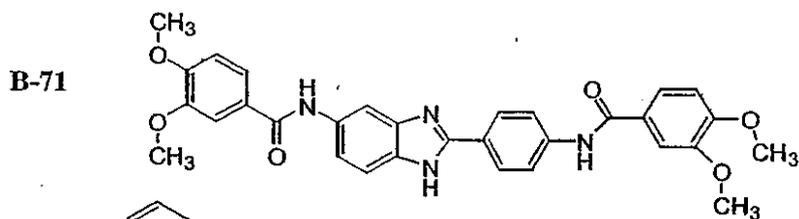
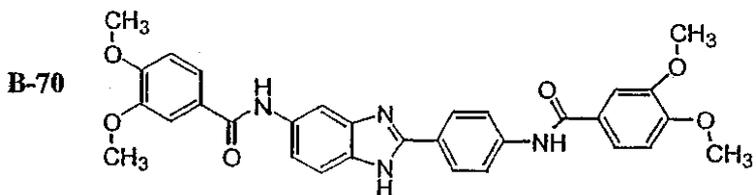
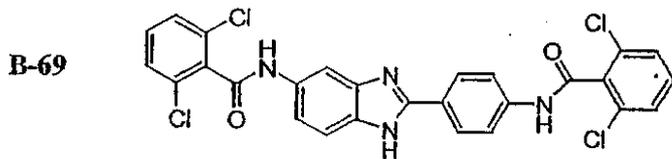
B-67



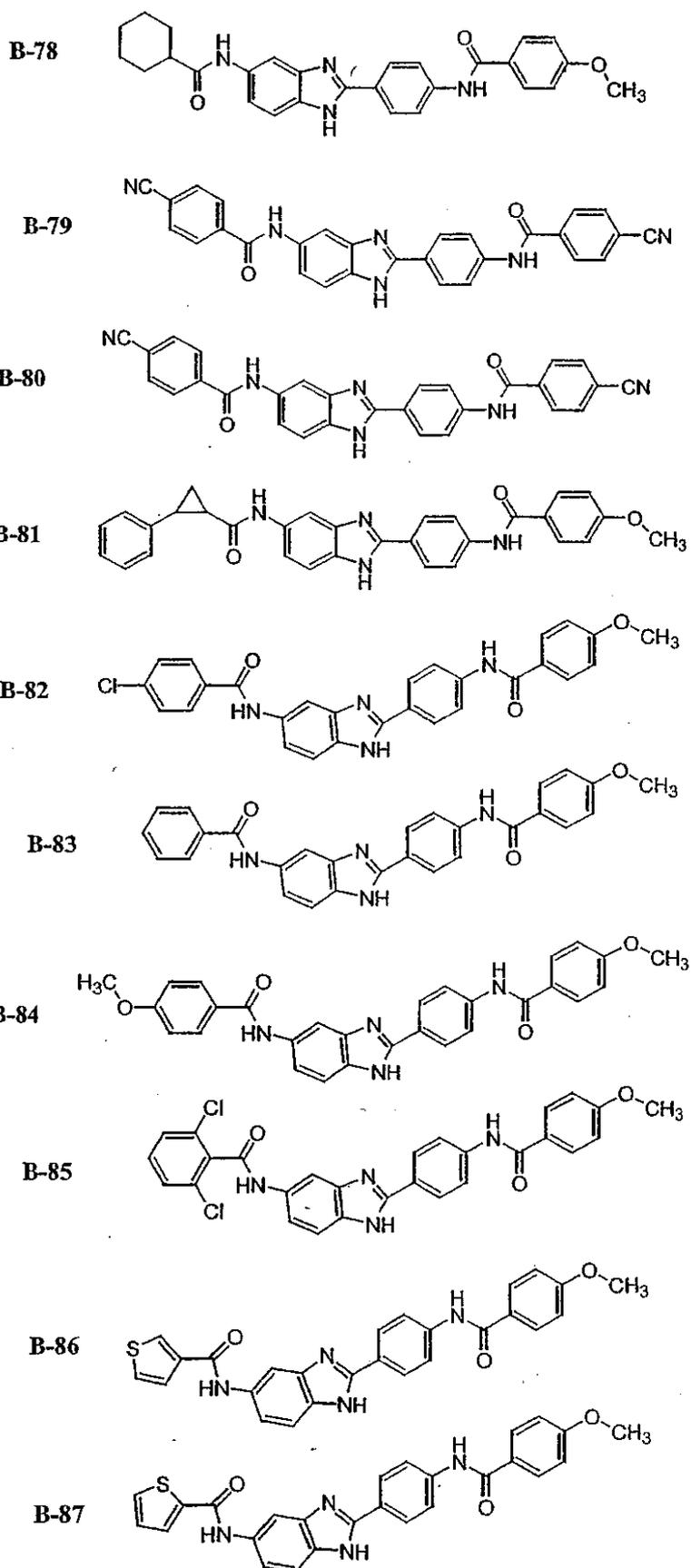
B-68



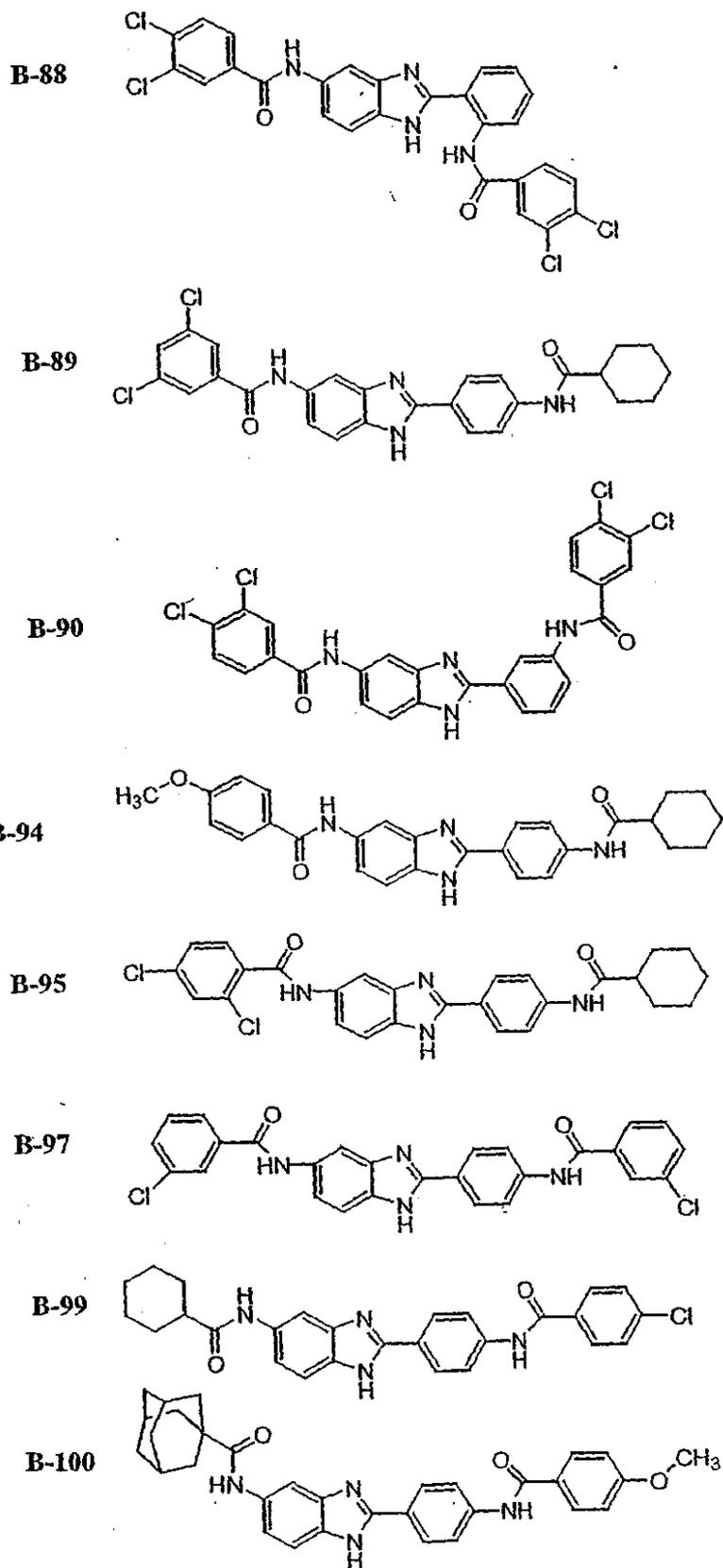
【化 4 4】



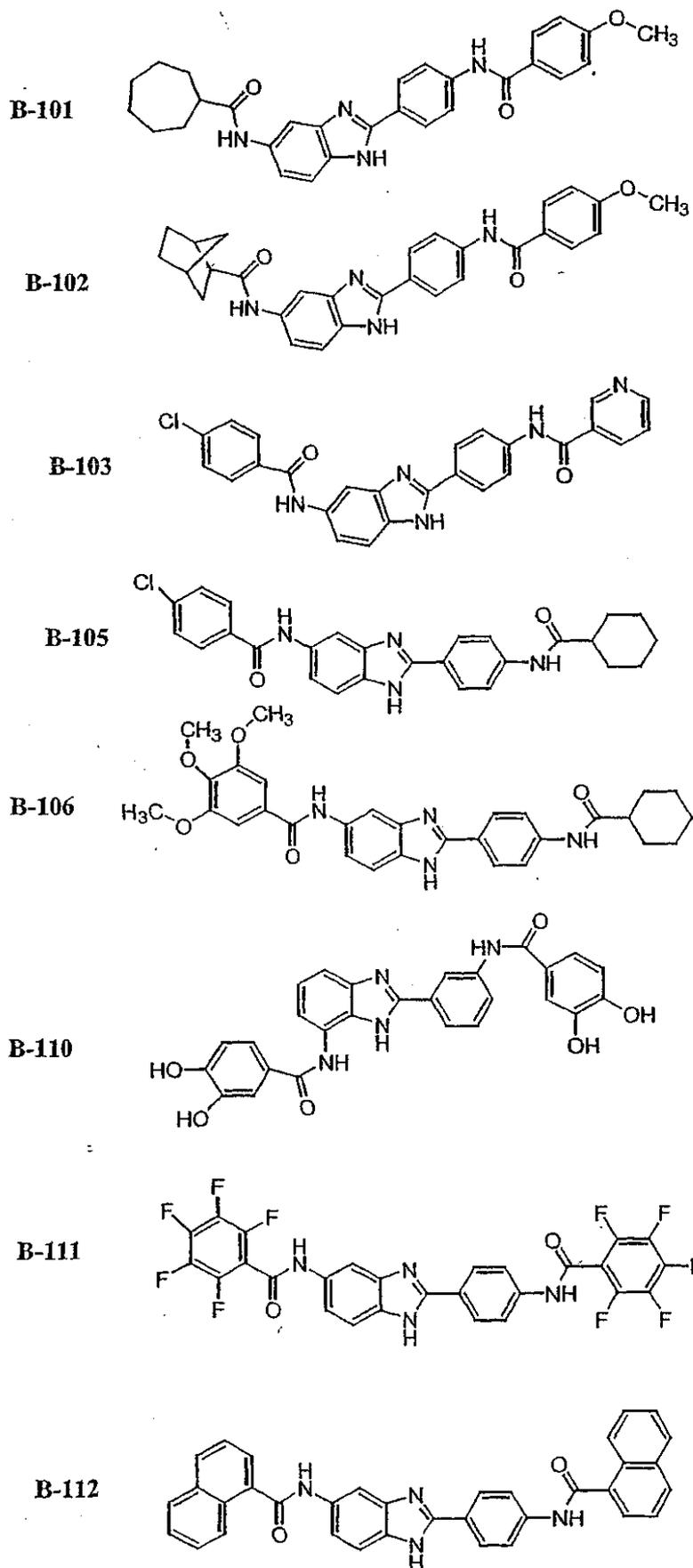
【化 4 5】



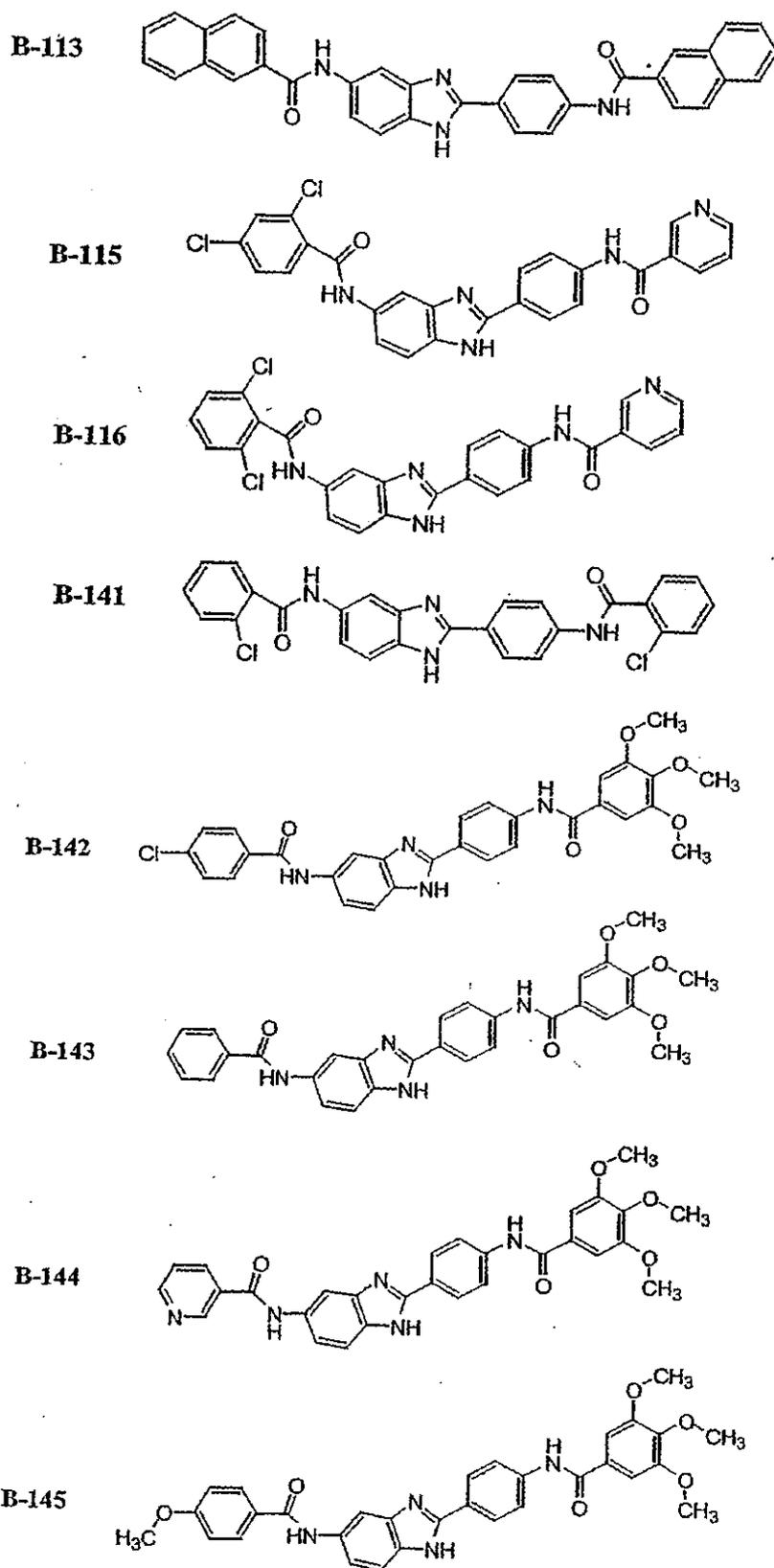
【化 4 6】



【化 4 7】

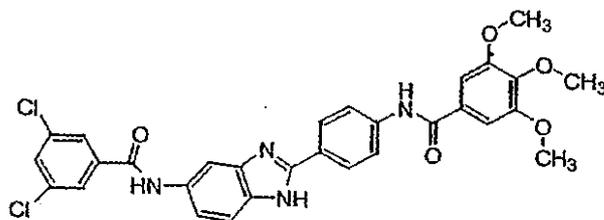


【化 4 8】

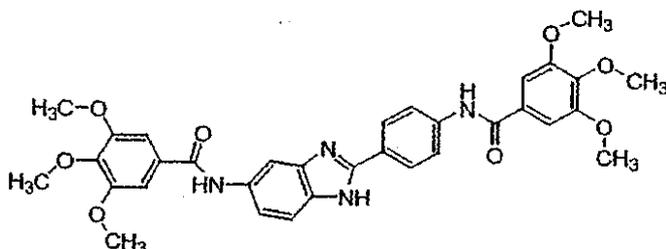


【化 4 9】

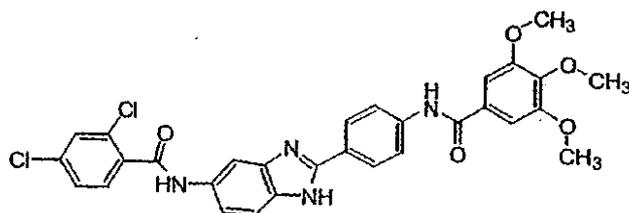
B-146



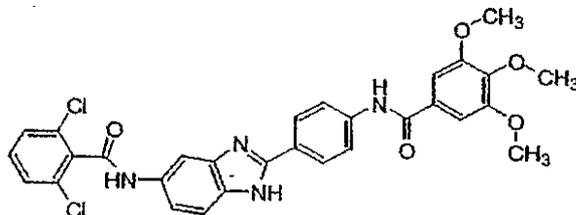
B-147



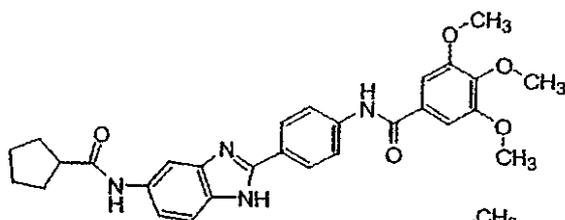
B-148



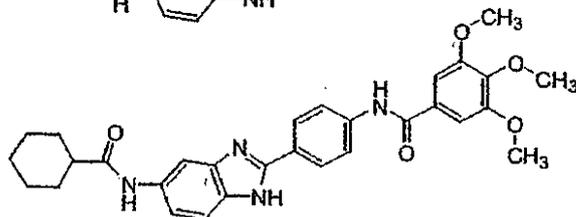
B-149



B-150

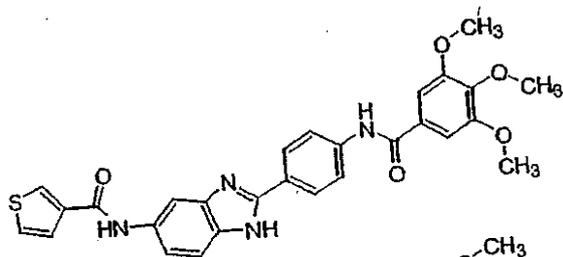


B-151

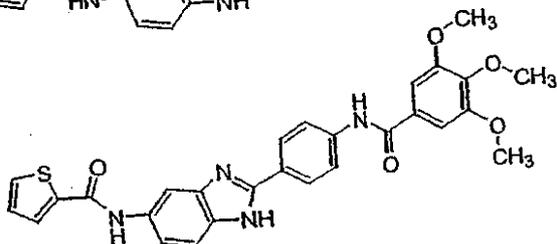


【化50】

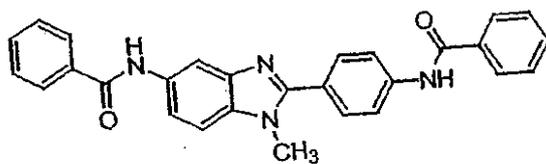
B-152



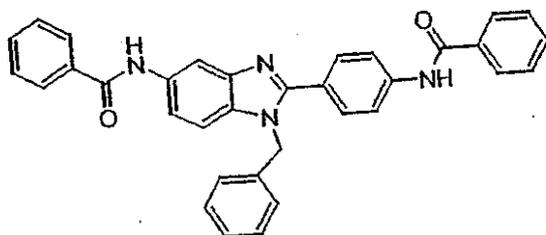
B-153



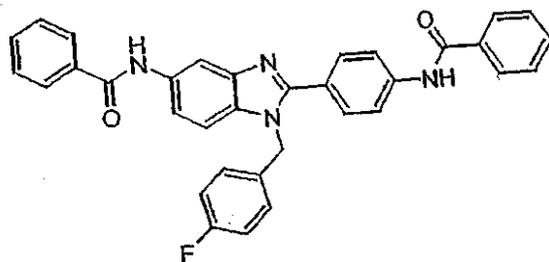
B-154



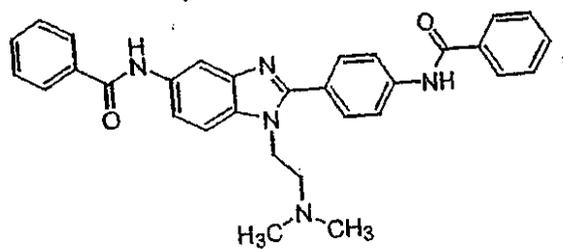
B-155



B-156

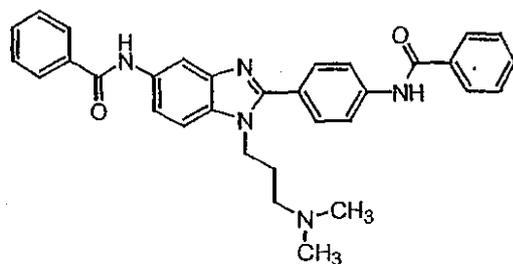


B-157

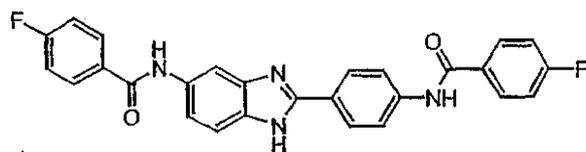


【化 5 1】

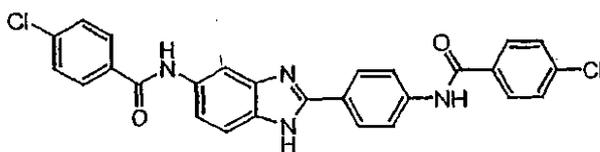
B-158



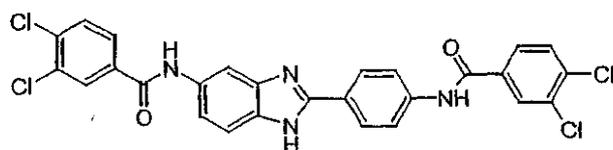
B-159



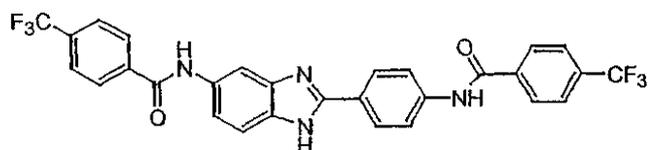
B-160



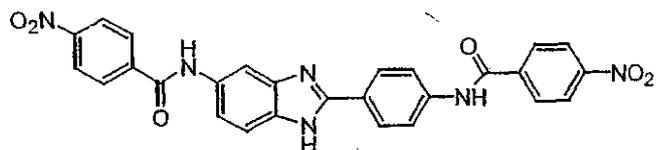
B-161



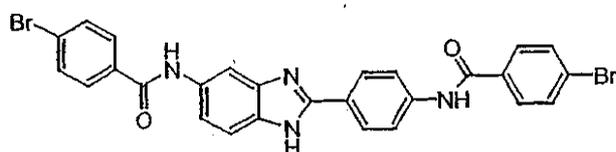
B-162



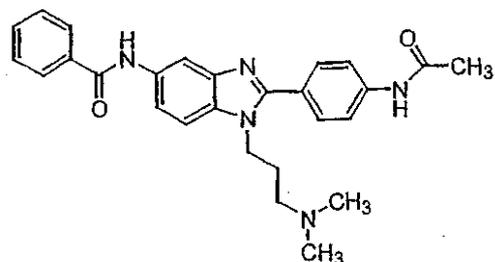
B-165



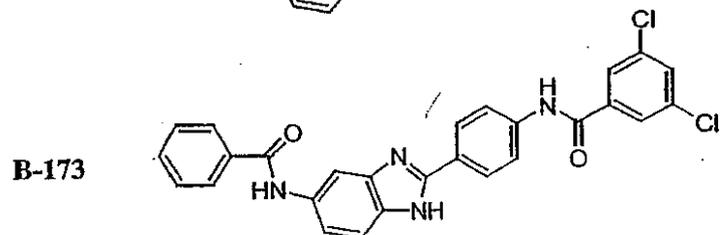
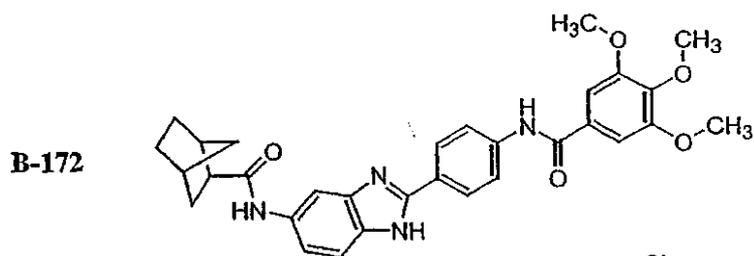
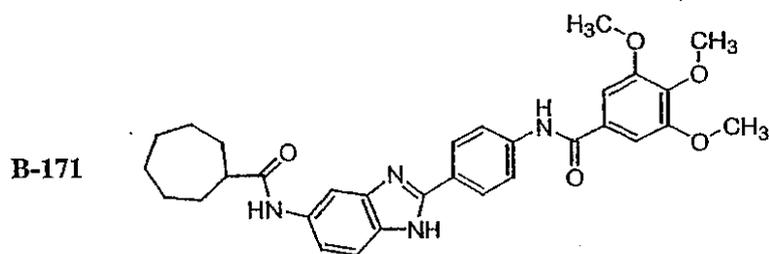
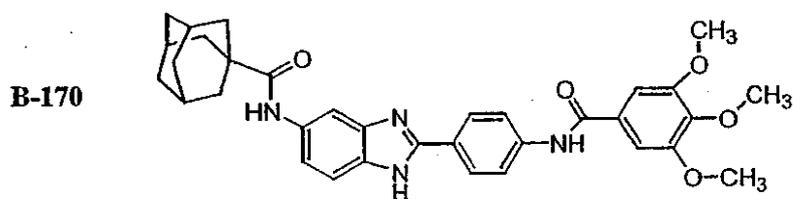
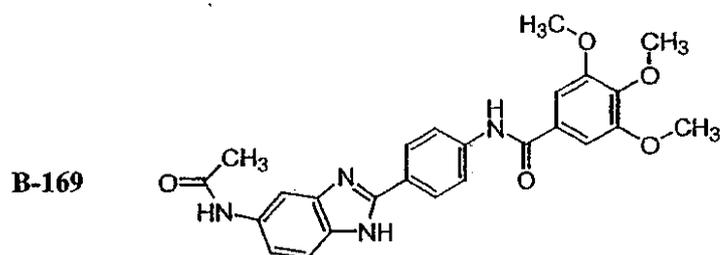
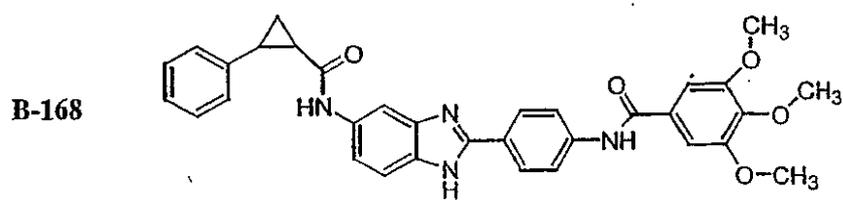
B-166



B-167

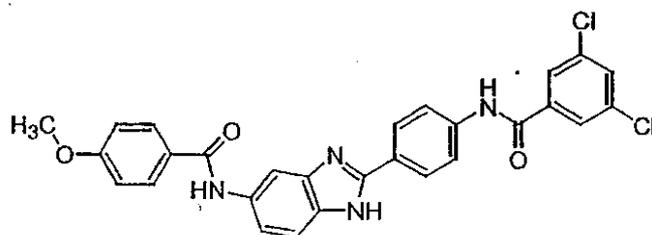


【化 5 2】

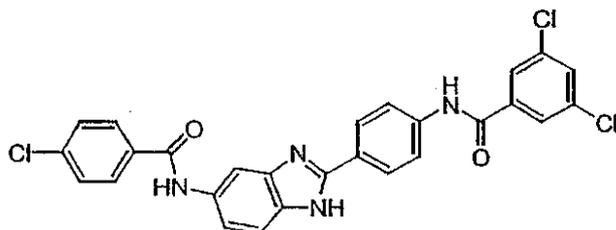


【化 5 3】

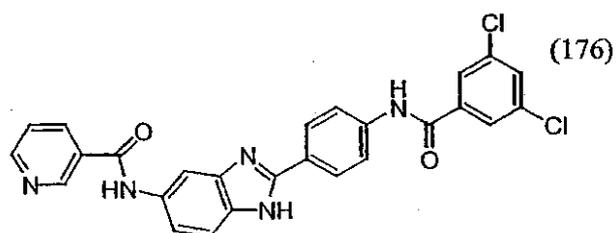
B-174



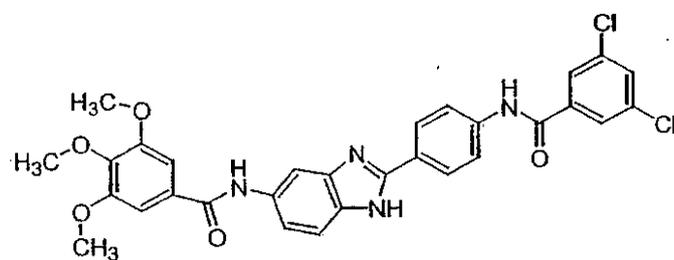
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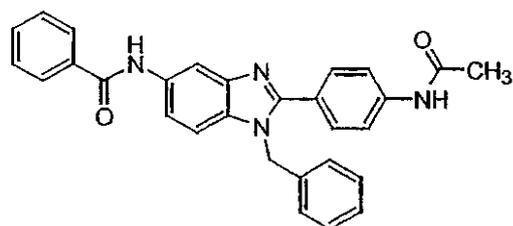
B-176



B-177

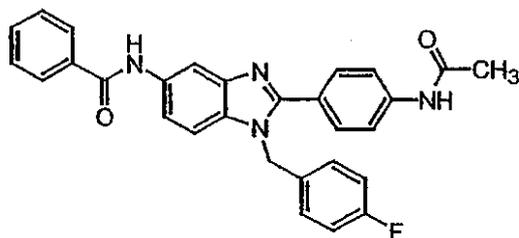


B-178

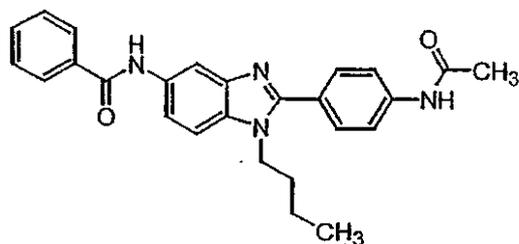


【化 5 4】

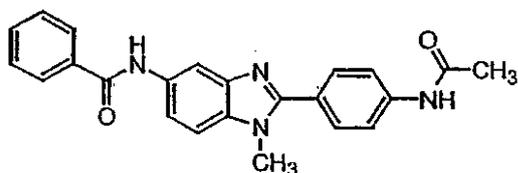
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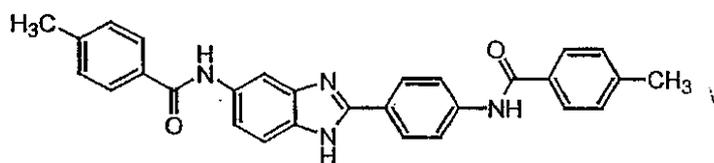
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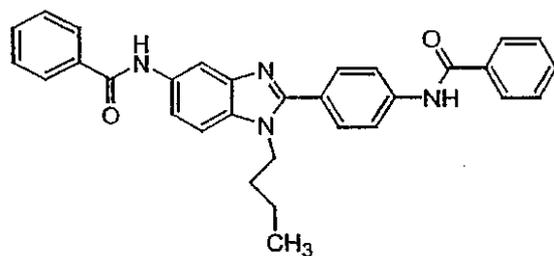
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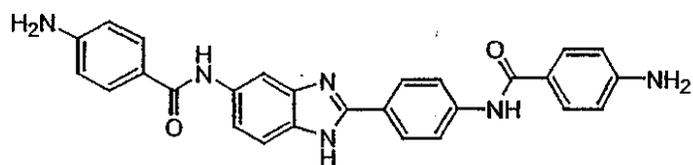
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B-183

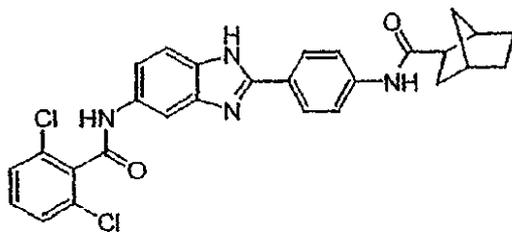


B-184

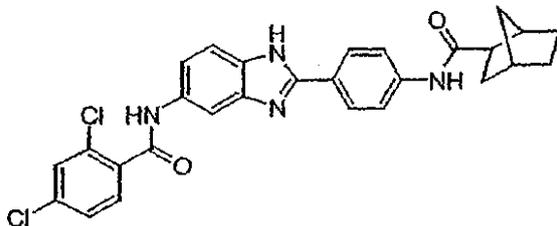


【化 5 5】

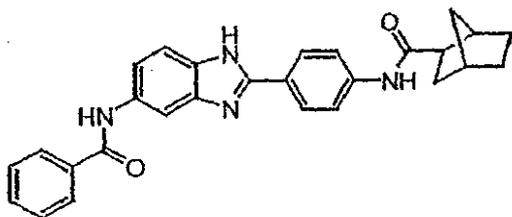
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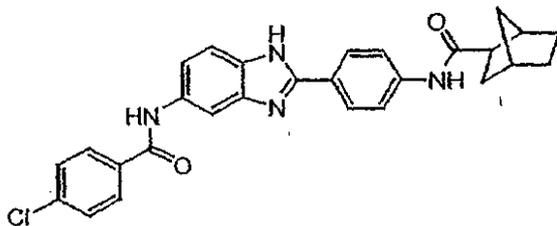
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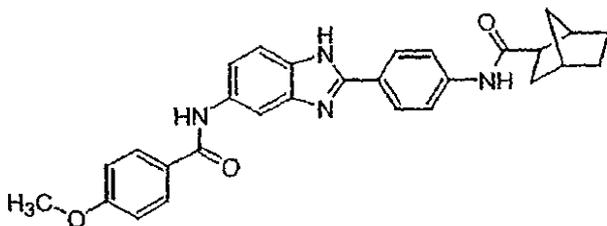
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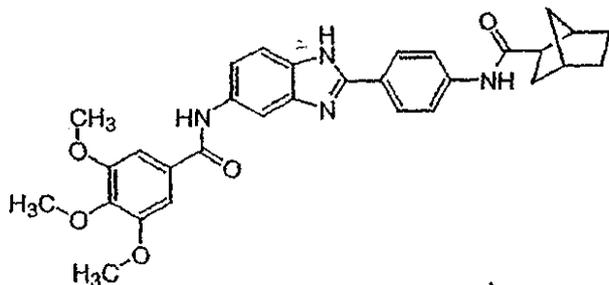
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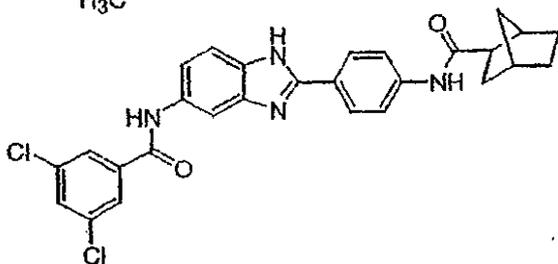
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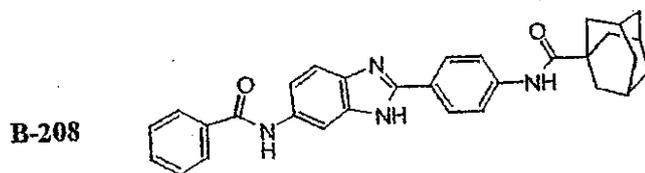
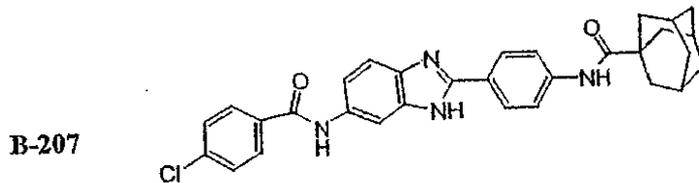
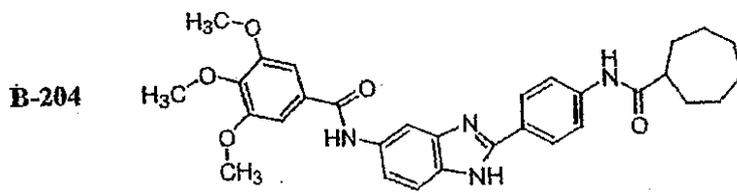
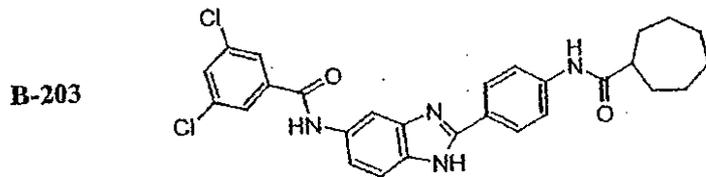
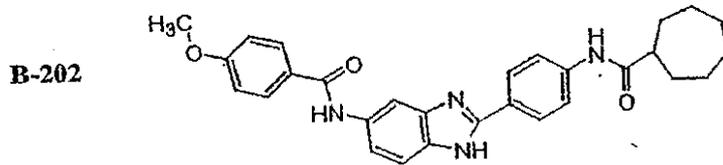
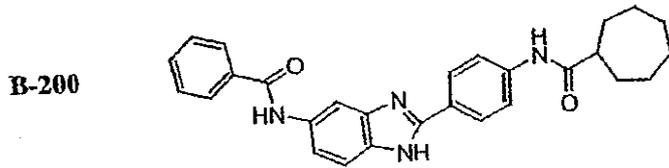
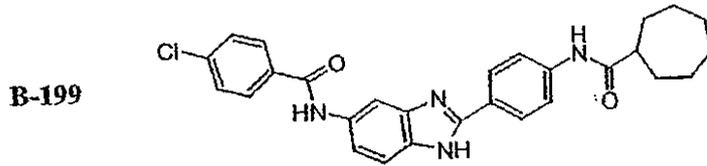
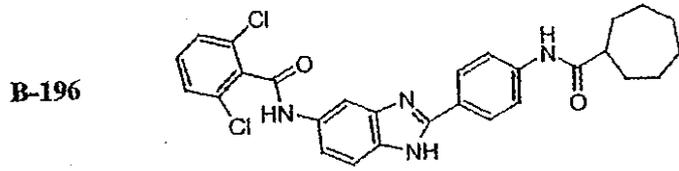
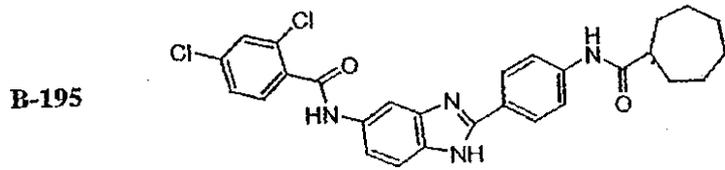
B-193



B-194

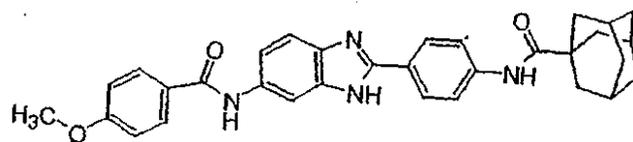


【化 5 6】

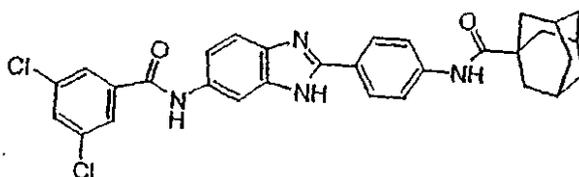


【化 5 7】

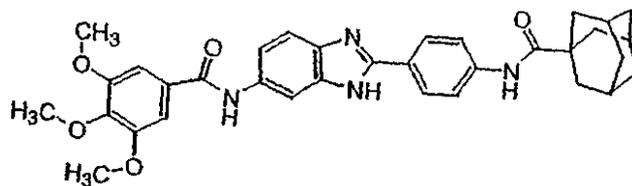
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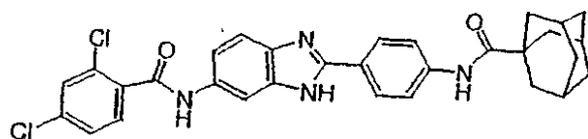
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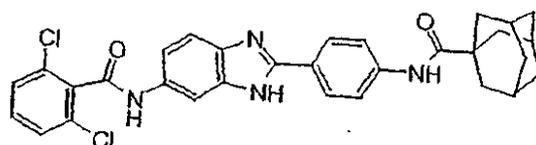
B-212



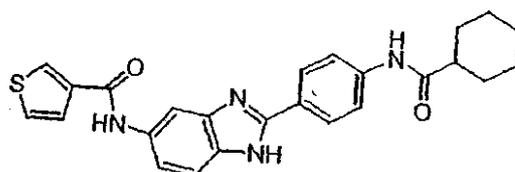
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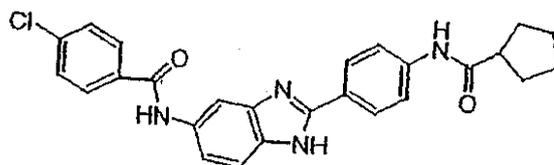
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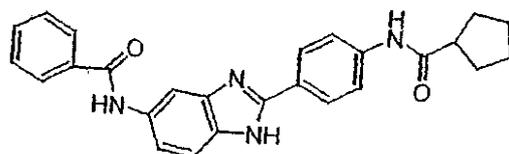
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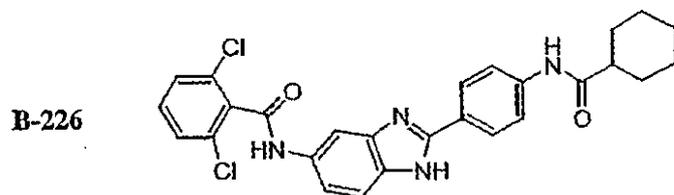
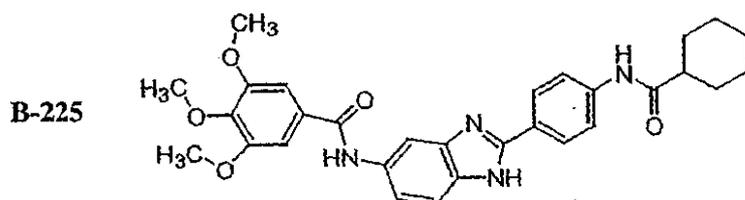
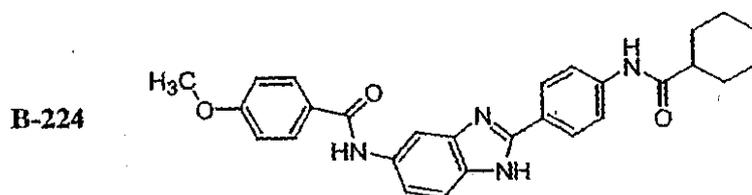
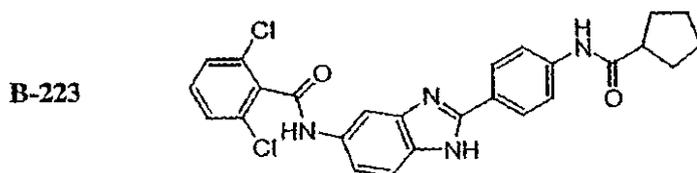
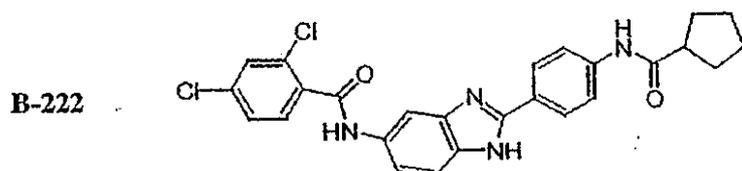
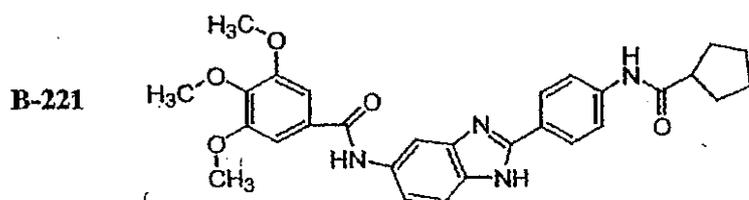
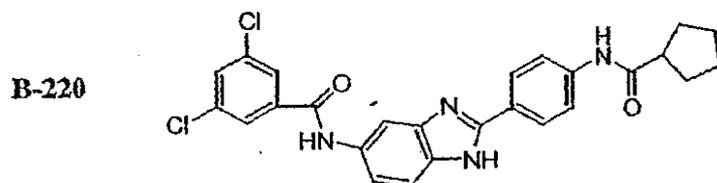
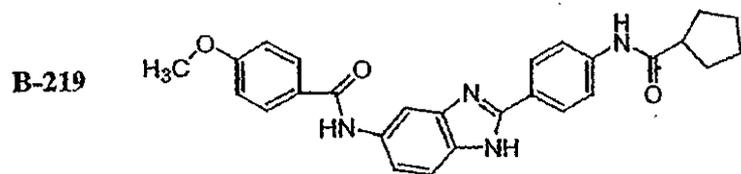
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B-217

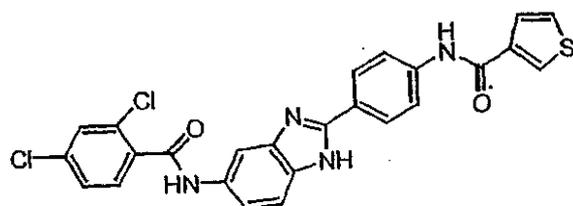


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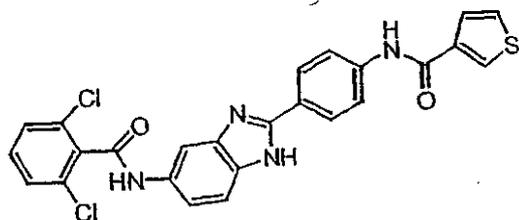


【化 5 9】

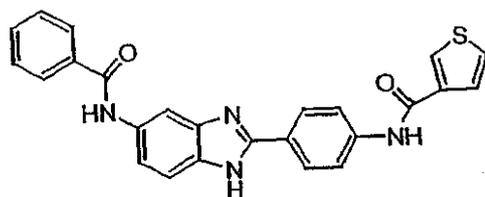
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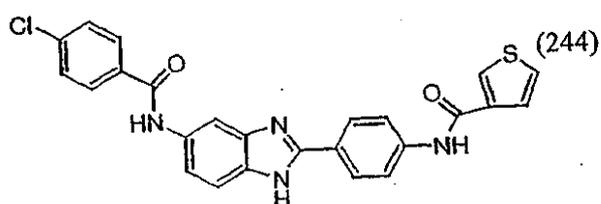
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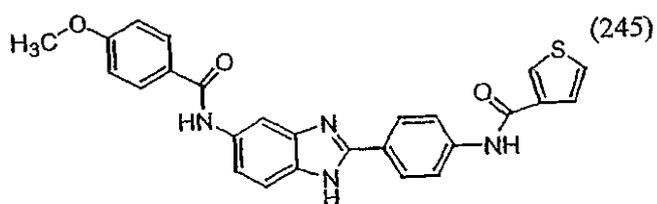
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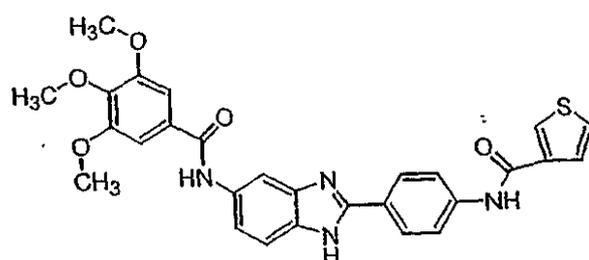
B-244



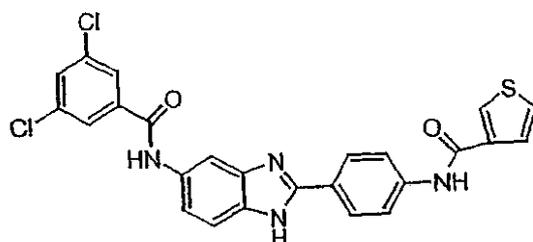
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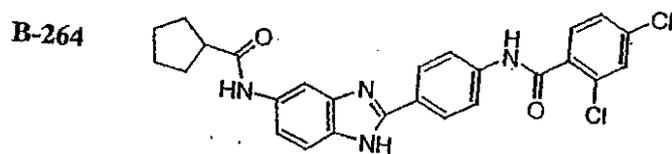
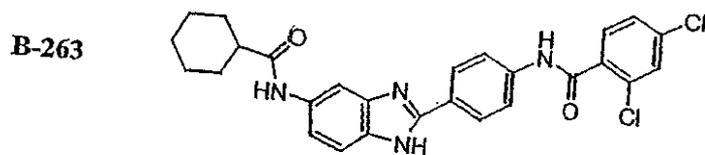
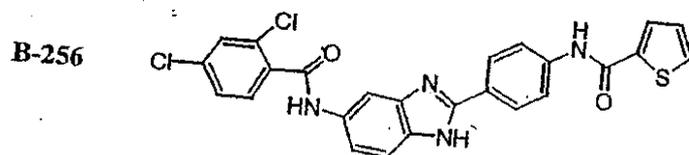
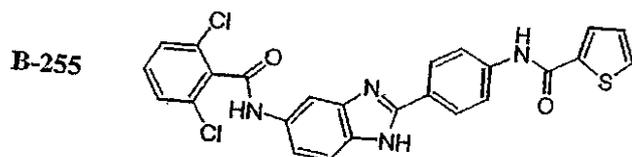
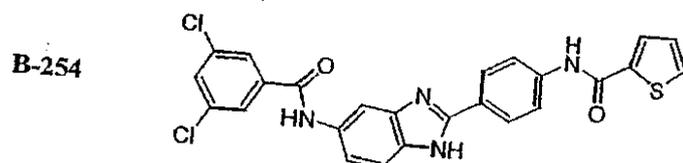
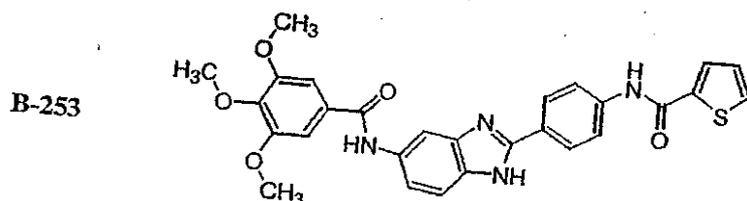
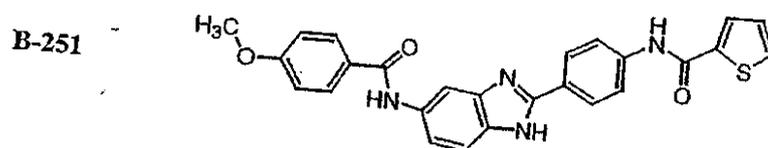
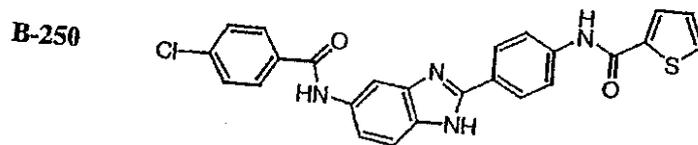
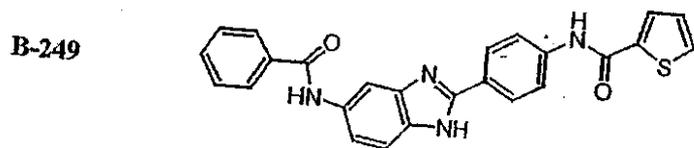
B-247



B-248

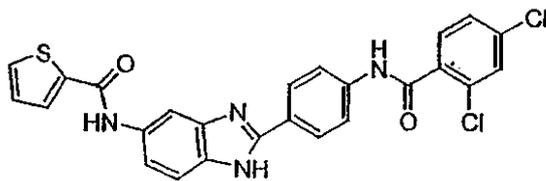


【化 6 0】

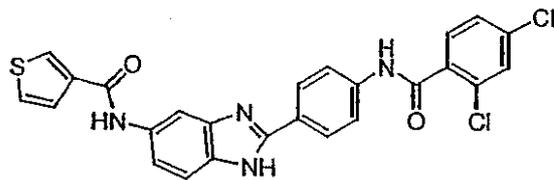


【化 6 1】

B-265



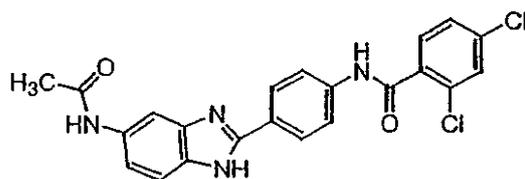
B-266



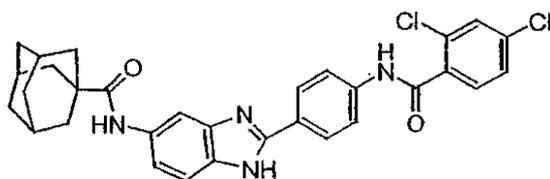
B-267



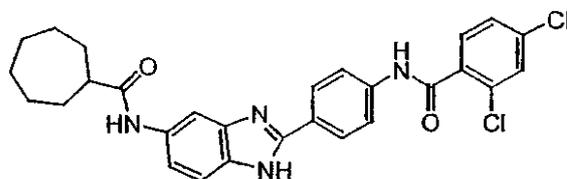
B-268



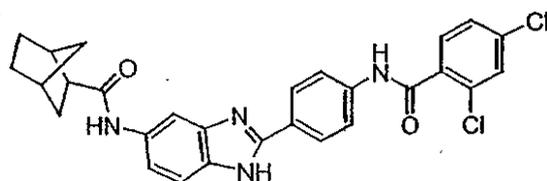
B-269



B-270

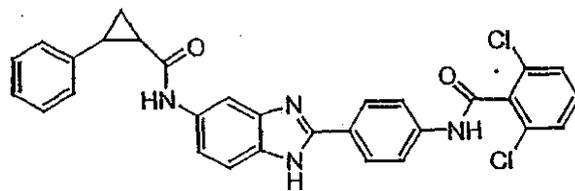


B-271

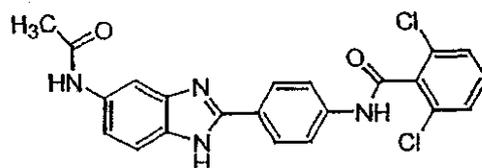


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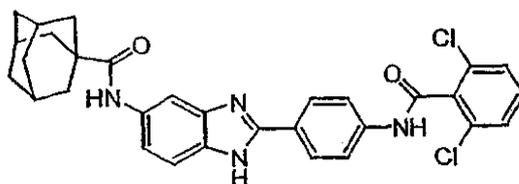
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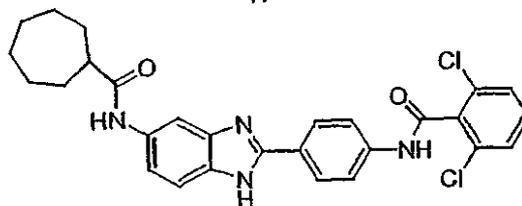
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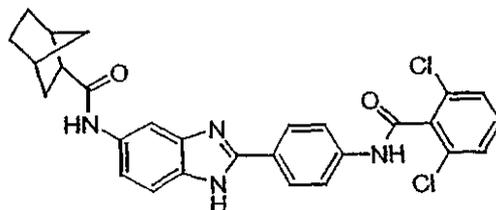
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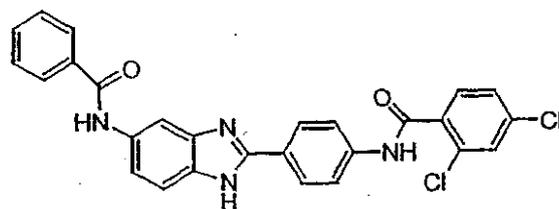
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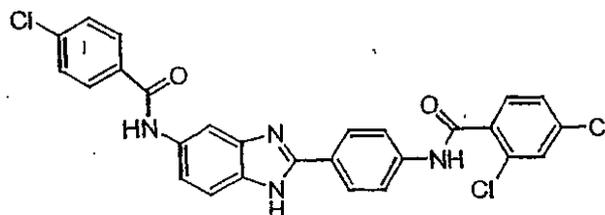
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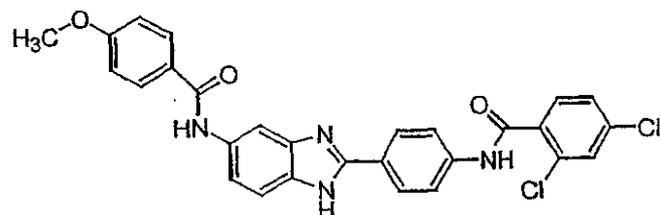
B-277



B-278

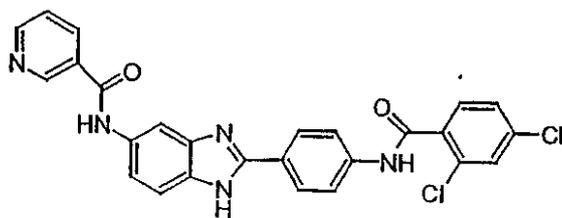


B-279

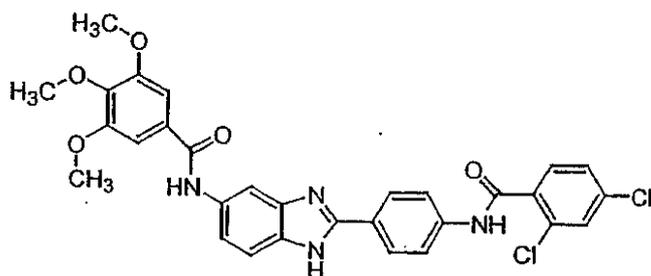


【化 6 3】

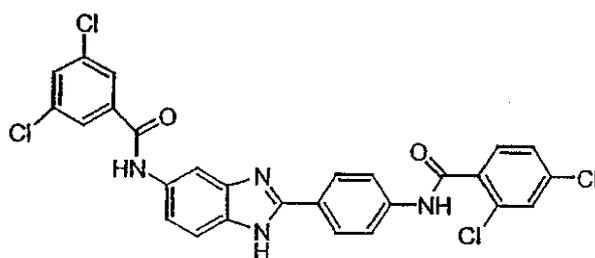
B-280



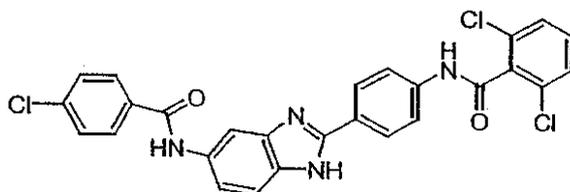
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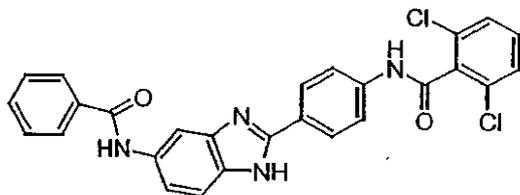
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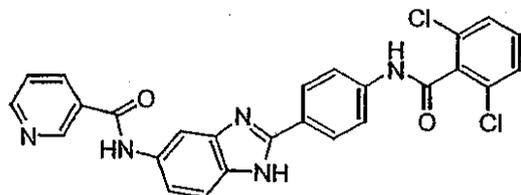
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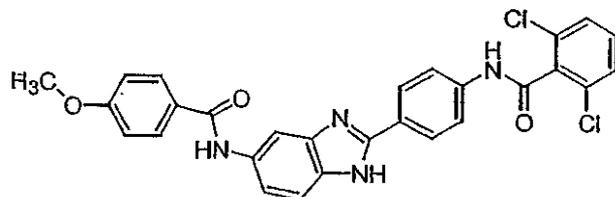
B-284



B-285

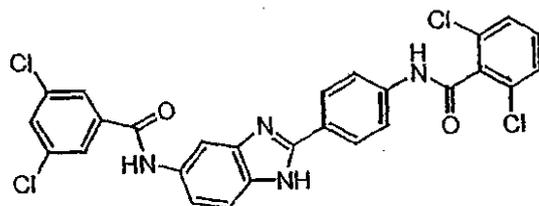


B-286

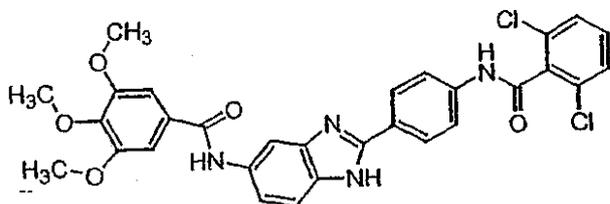


【化 6 4】

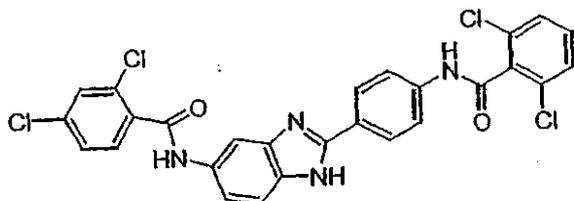
B-287



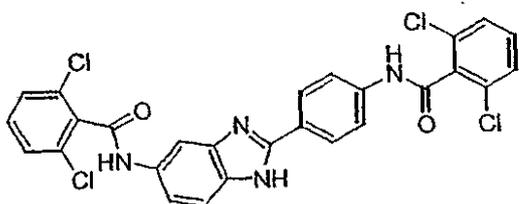
B-288



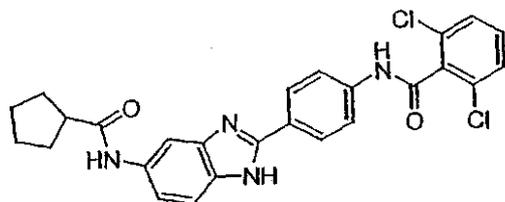
B-289



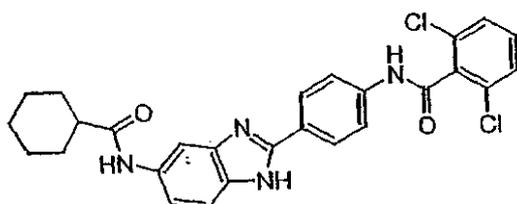
B-290



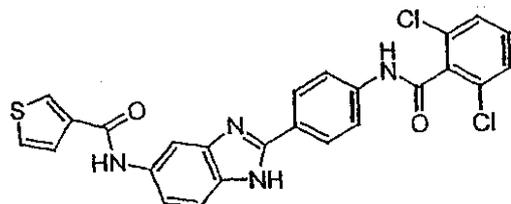
B-291



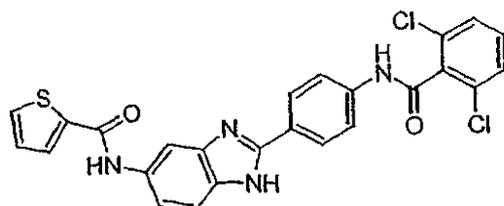
B-292



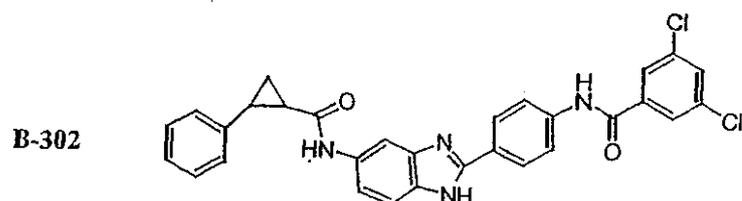
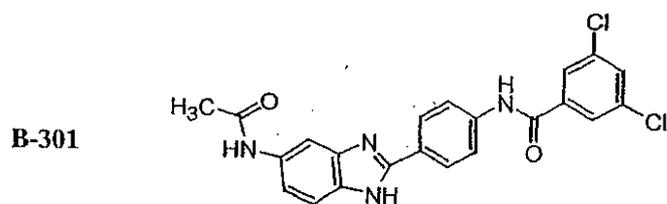
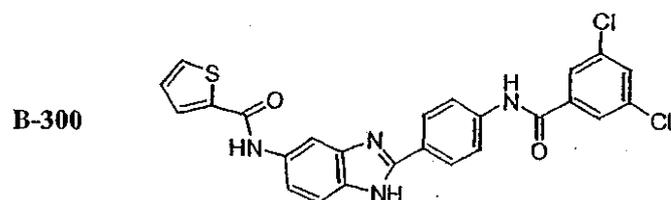
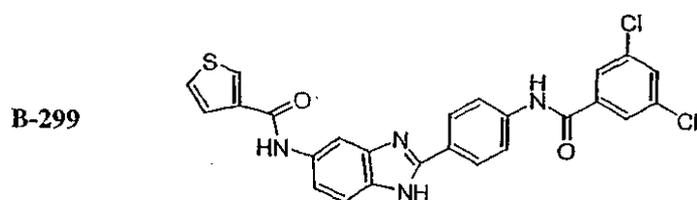
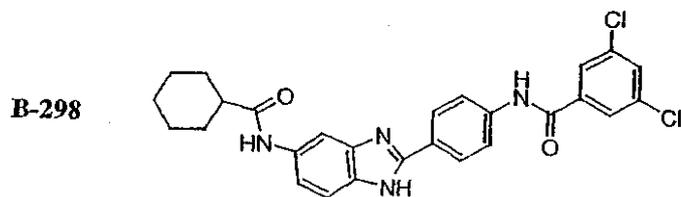
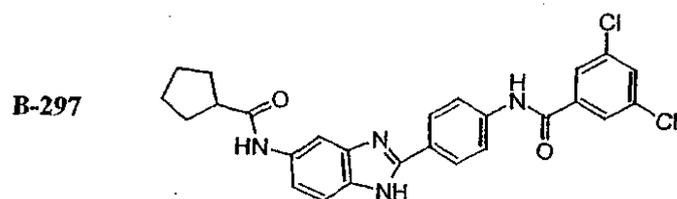
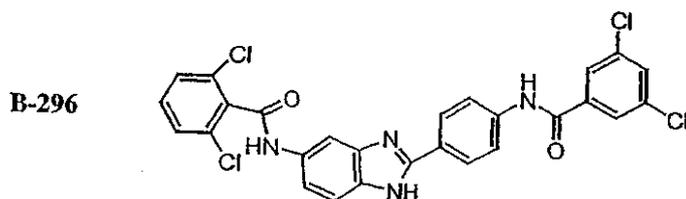
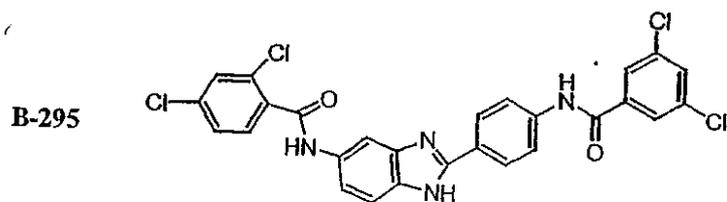
B-293



B-294

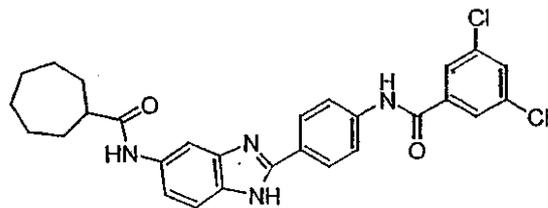


【化 6 5】

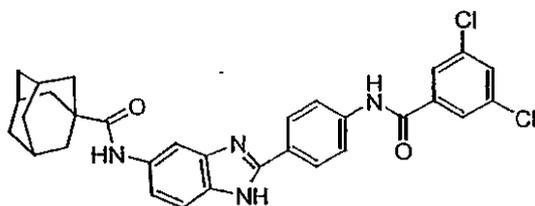


【化 6 6】

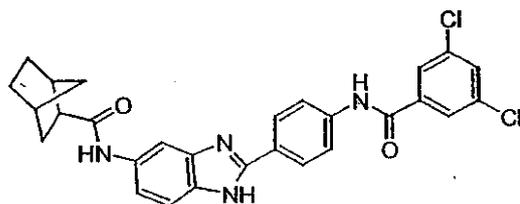
B-303



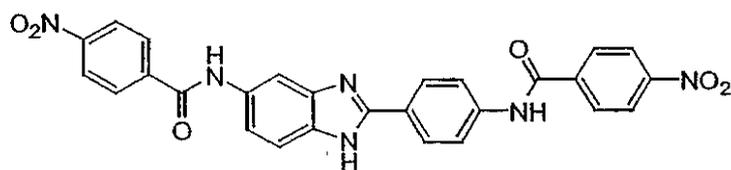
B-304



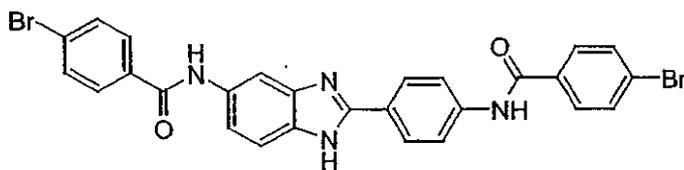
B-305



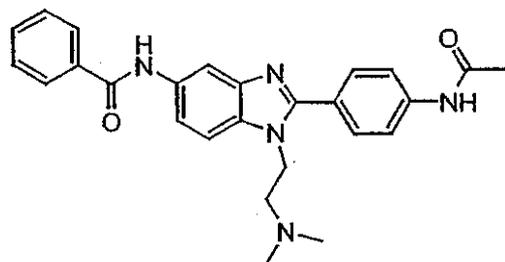
E-845



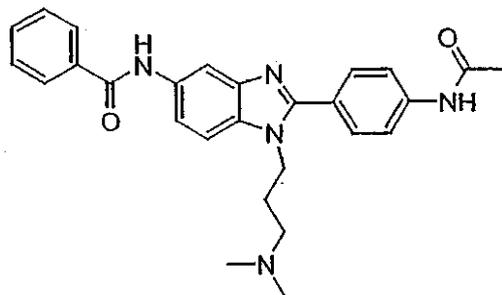
E-846



E-872

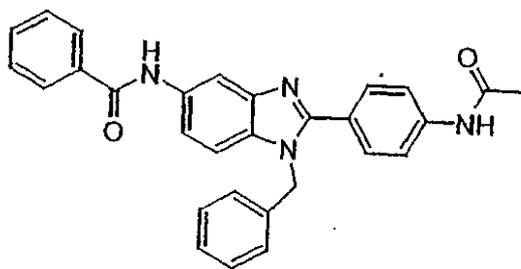


E-873

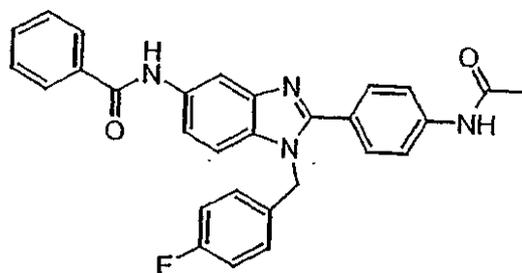


【化 6 7】

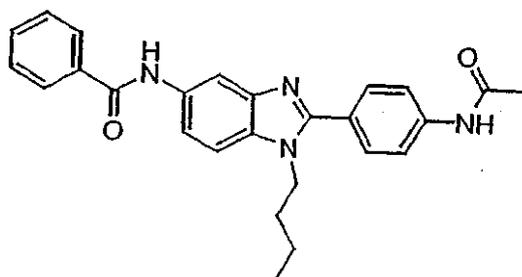
E-874



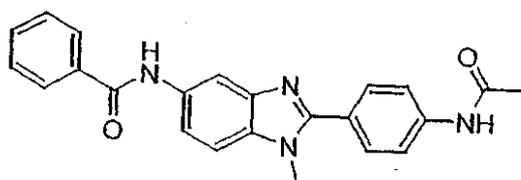
E-875



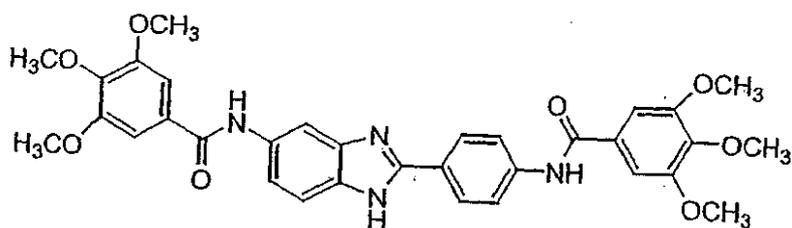
E-876



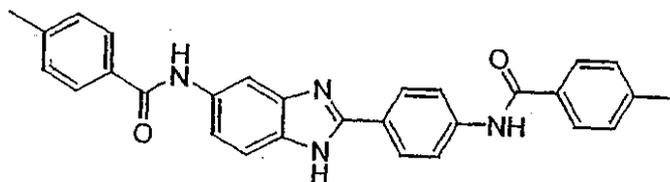
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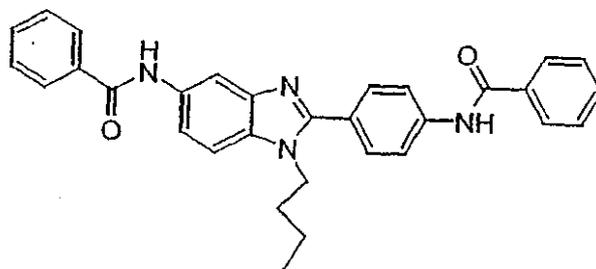
E-880



E-881

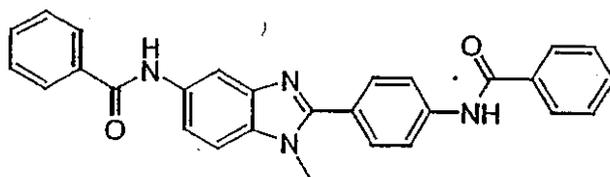


E-882

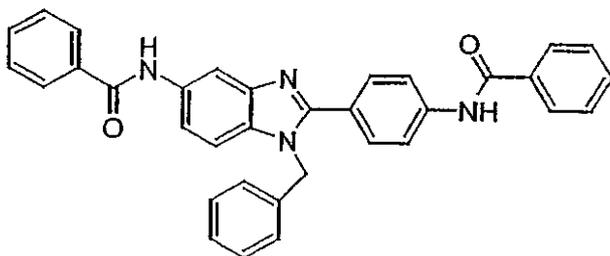


【化 6 8】

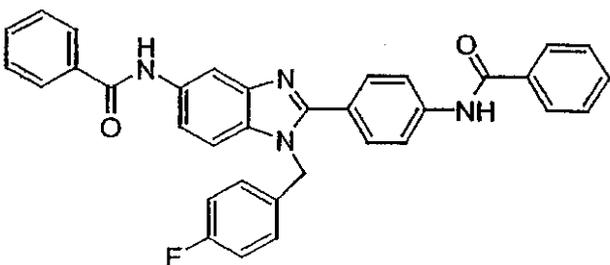
E-883



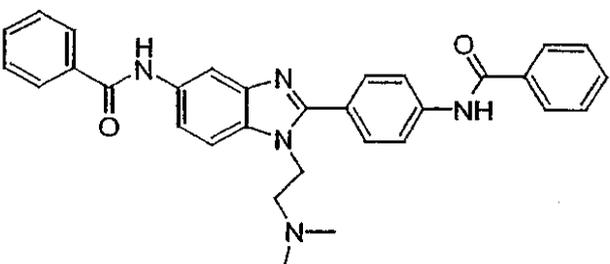
E-884



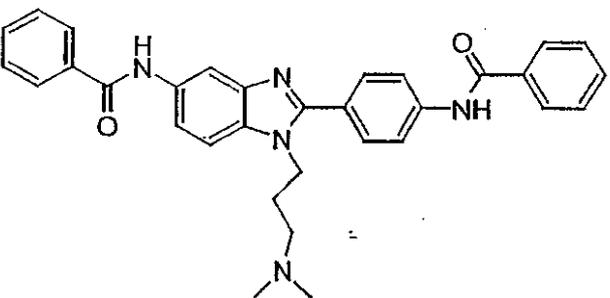
E-885



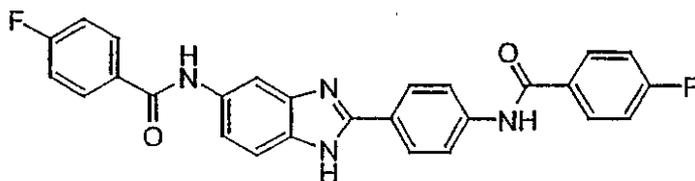
E-886



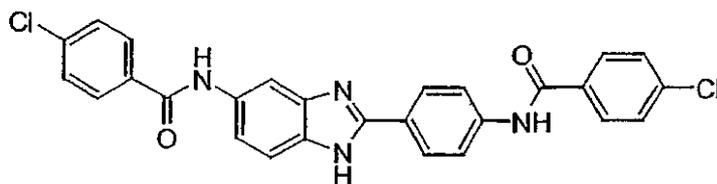
E-887



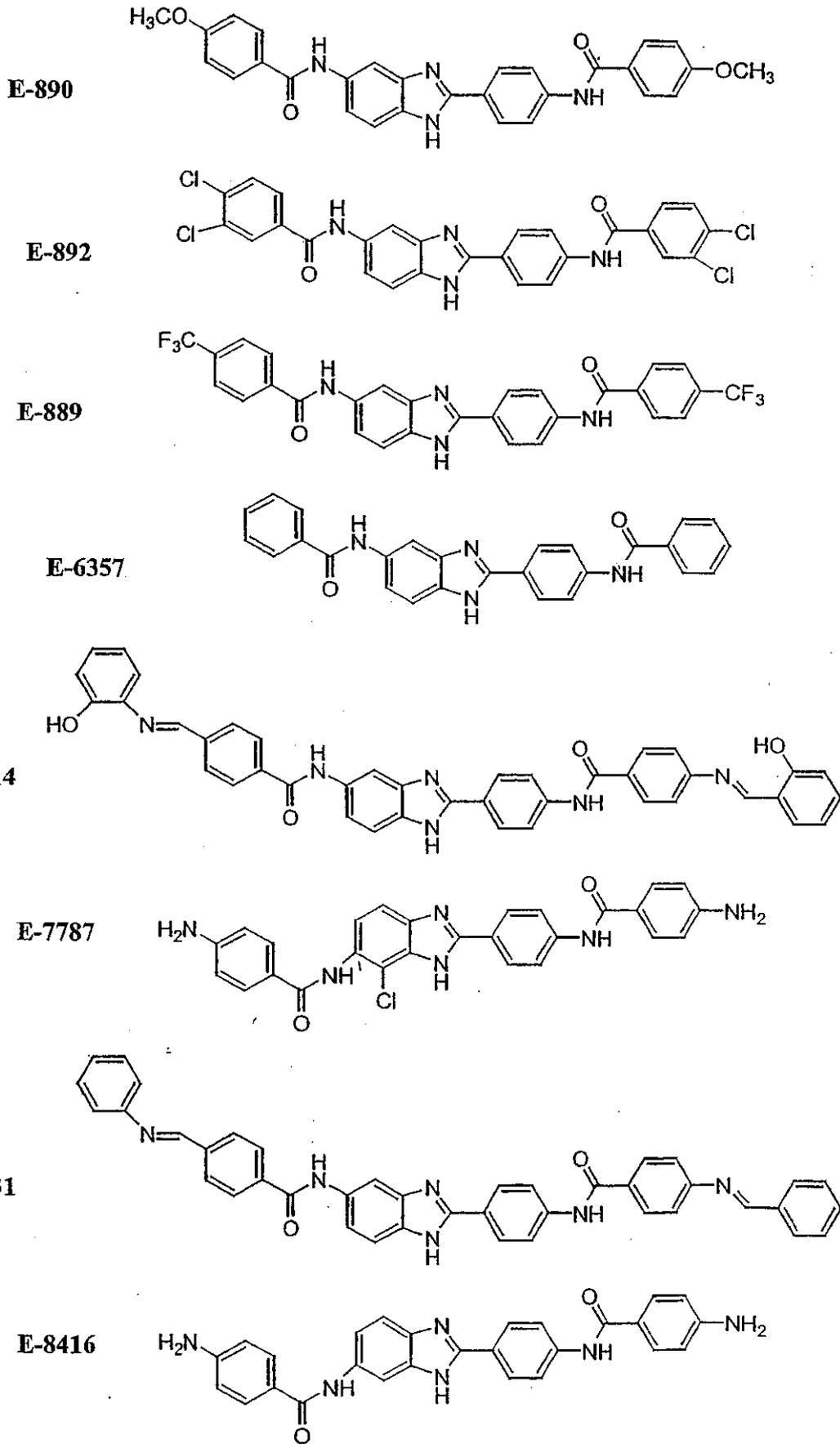
E-888



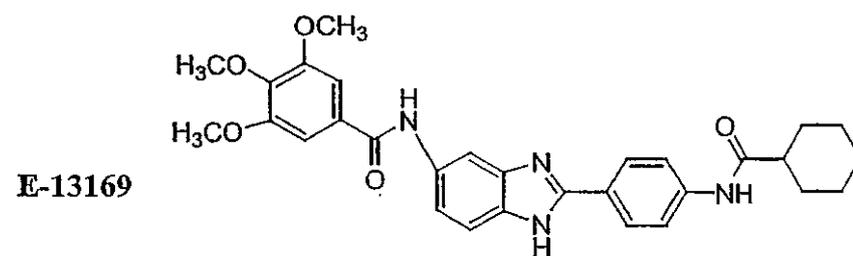
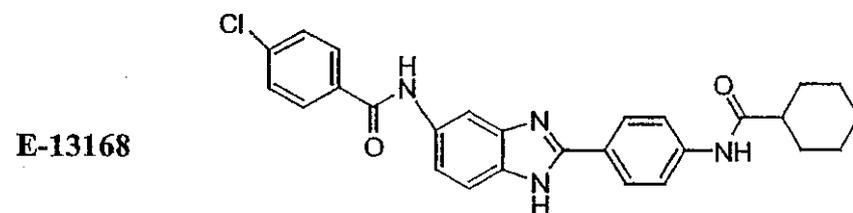
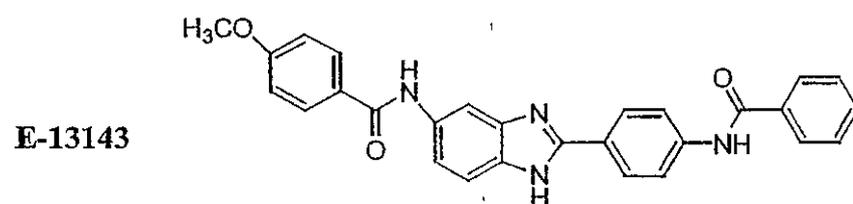
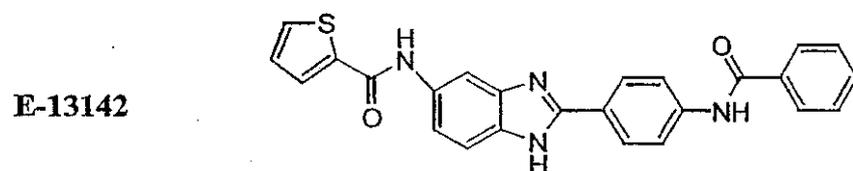
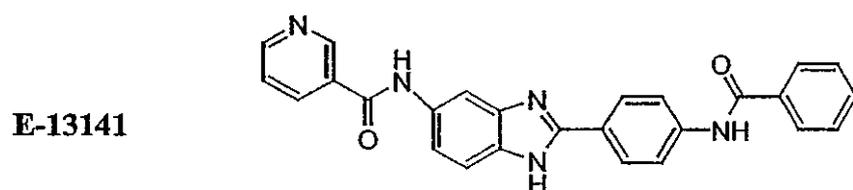
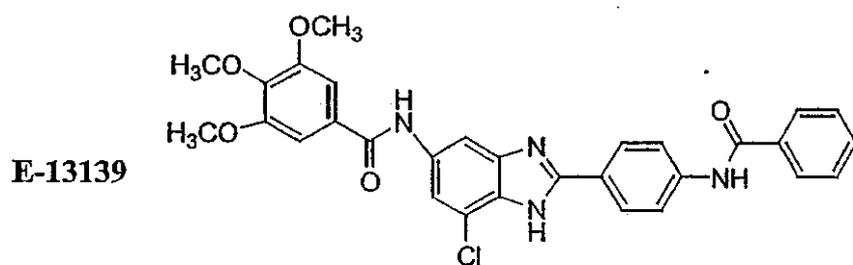
E-889



【化 6 9】

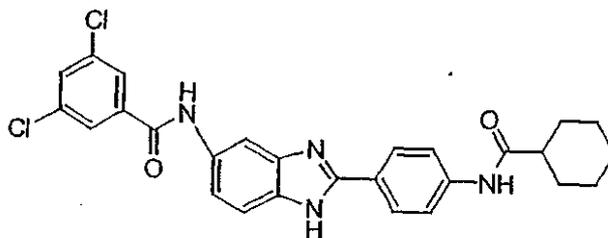


【化 7 0】

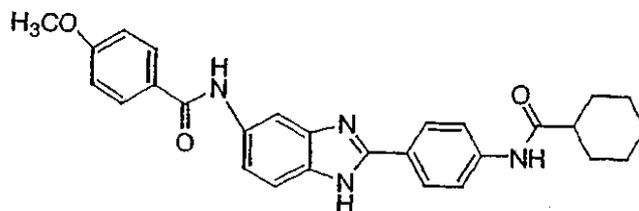


【化 7 1】

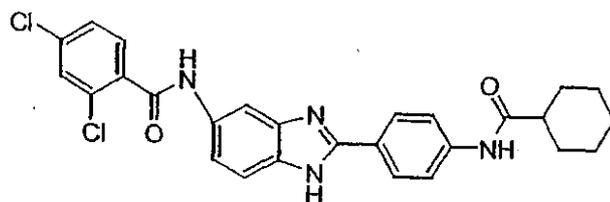
E-13192



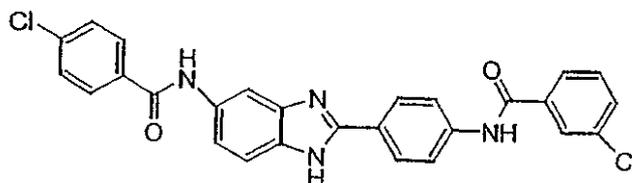
E-13199



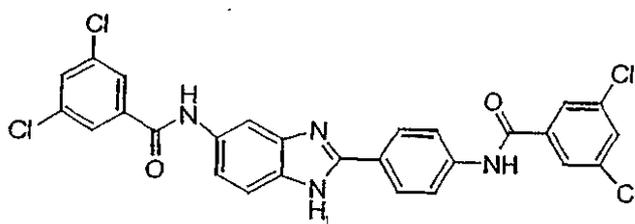
E-13201



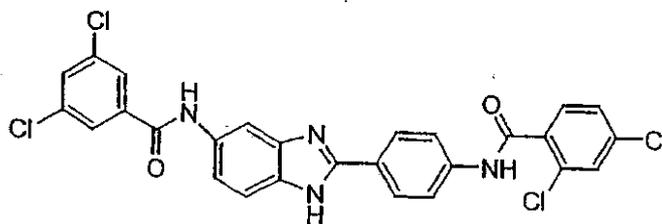
E-13204



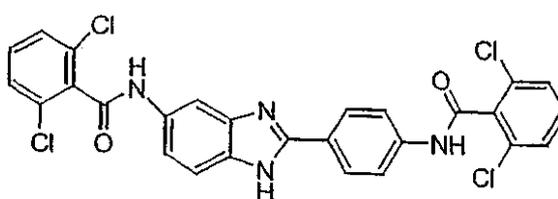
E-13205



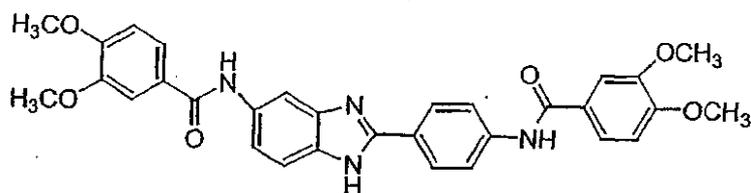
E-13206



E-13207

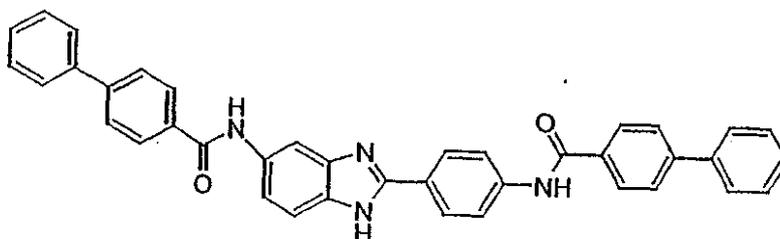


E-13208

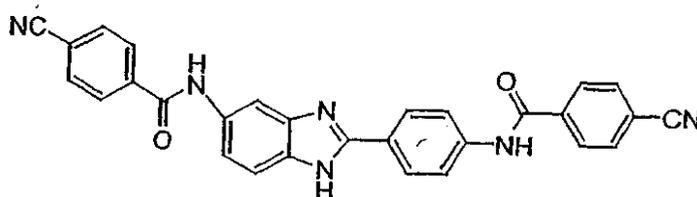


【化 7 2】

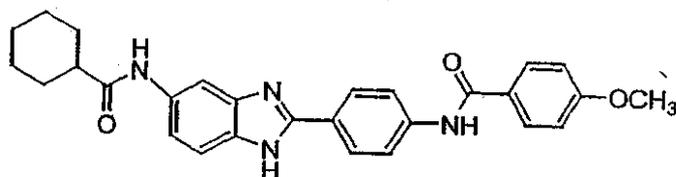
E-13209



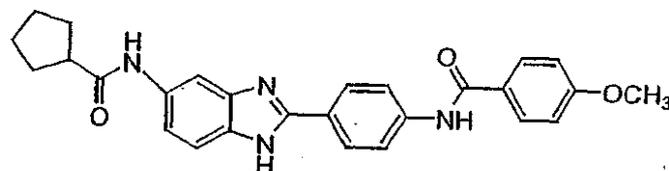
E-13210



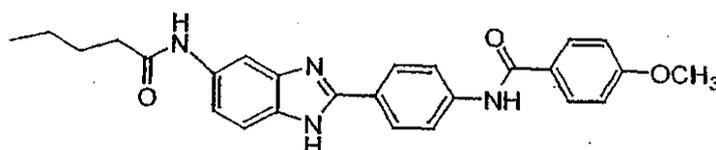
E-13211



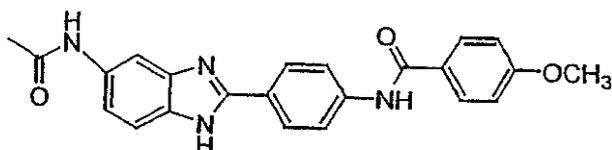
E-13212



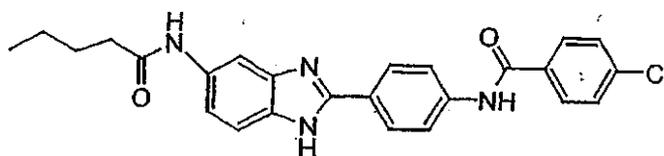
E-13213



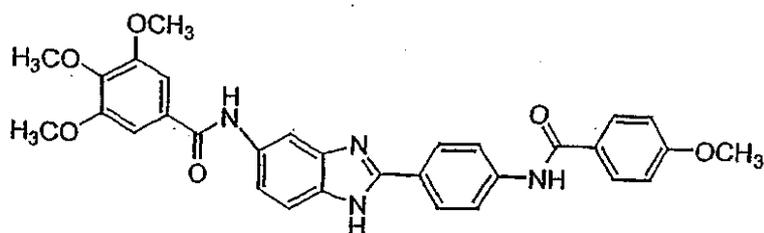
E-13214



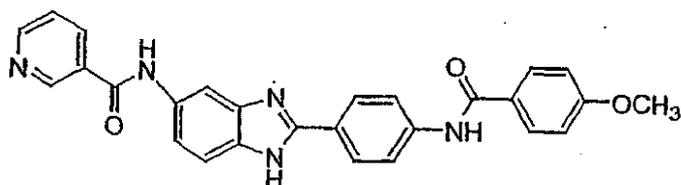
E-13215



E-13216

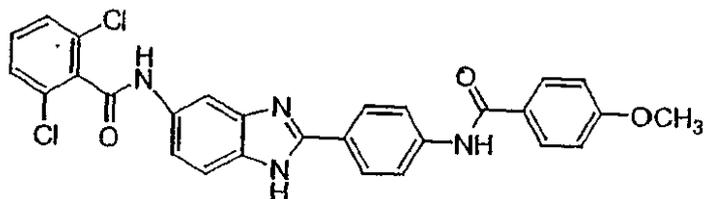


E-13217

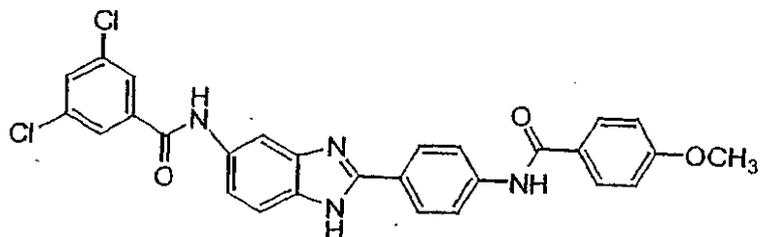


【化 7 3】

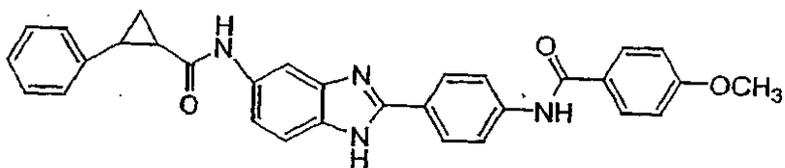
E-13218



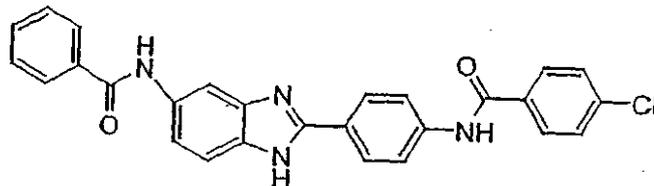
E-13219



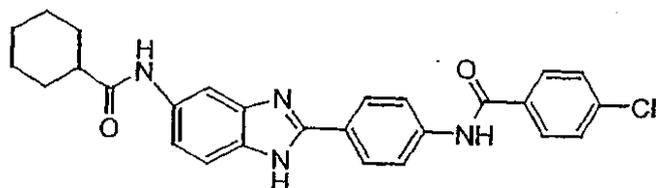
E-13220



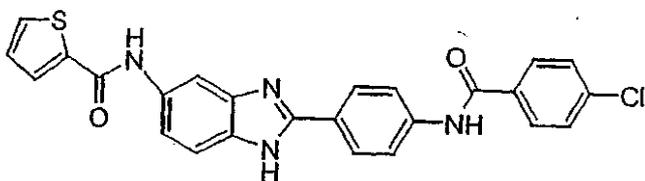
E-13221



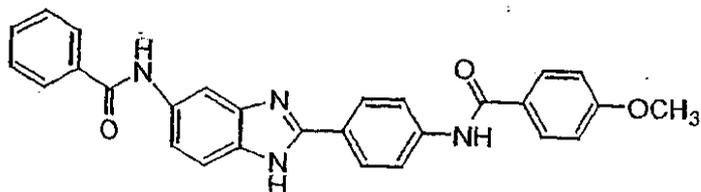
E-13222



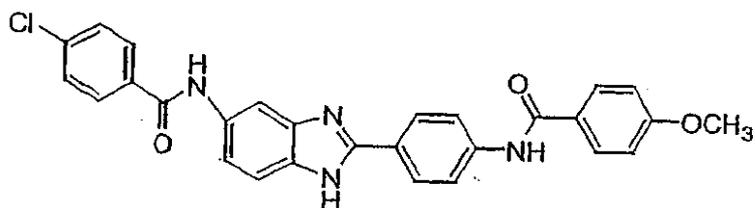
E-13223



E-13224

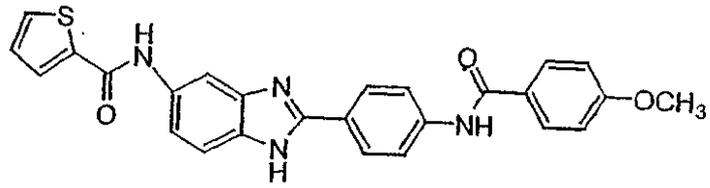


E-13225

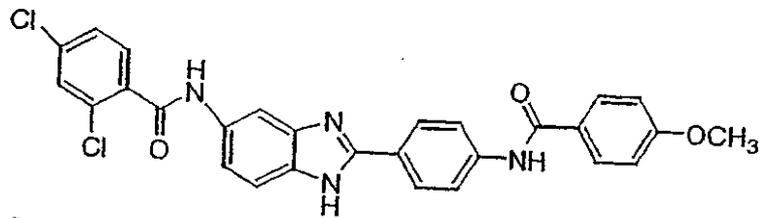


【化 7 4】

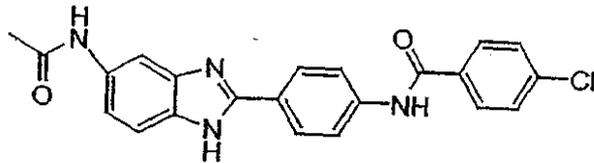
E-13226



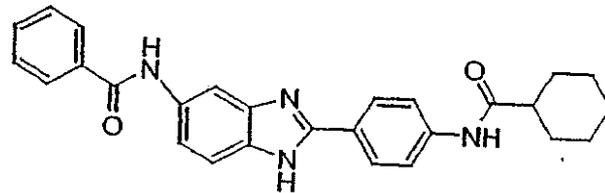
E-13227



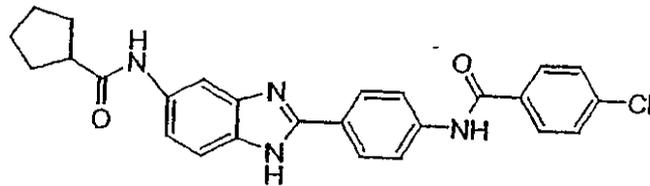
E-13228



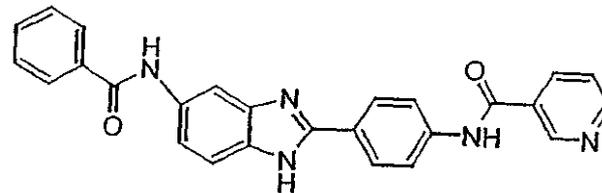
E-13229



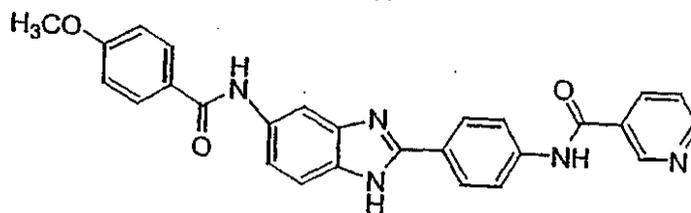
E-13230



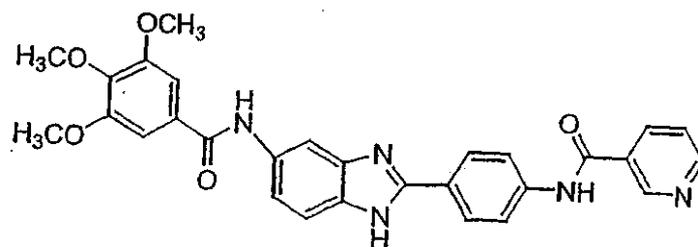
E-13231



E-13232

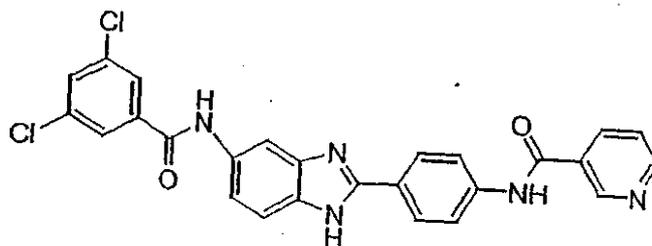


E-13235

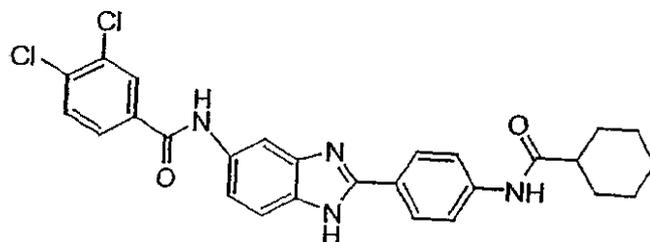


【化 7 5】

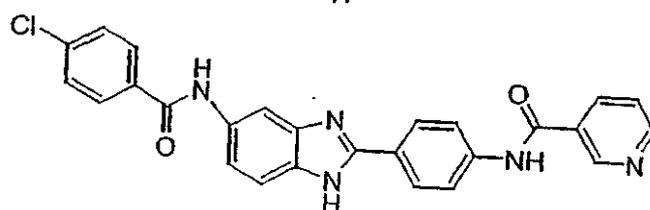
E-13236



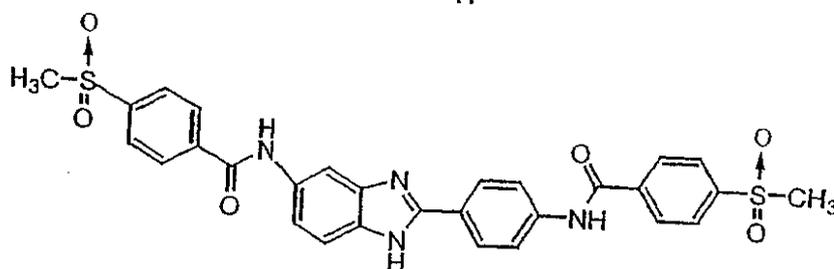
E-13237



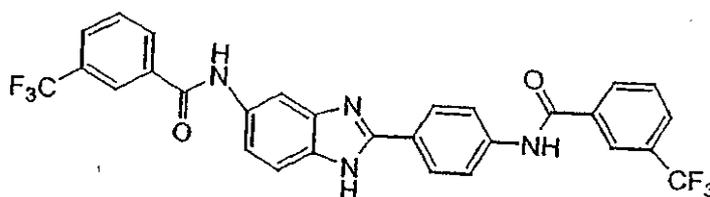
E-13244



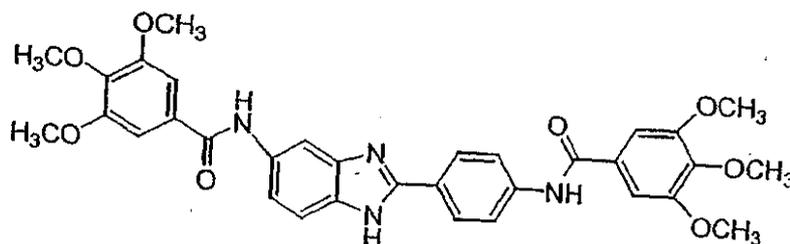
E-13245



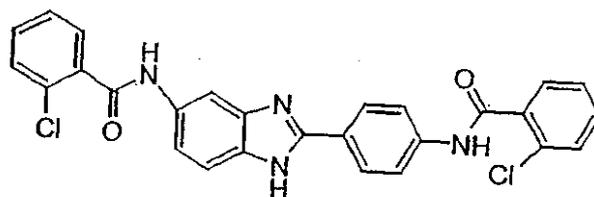
E-13246



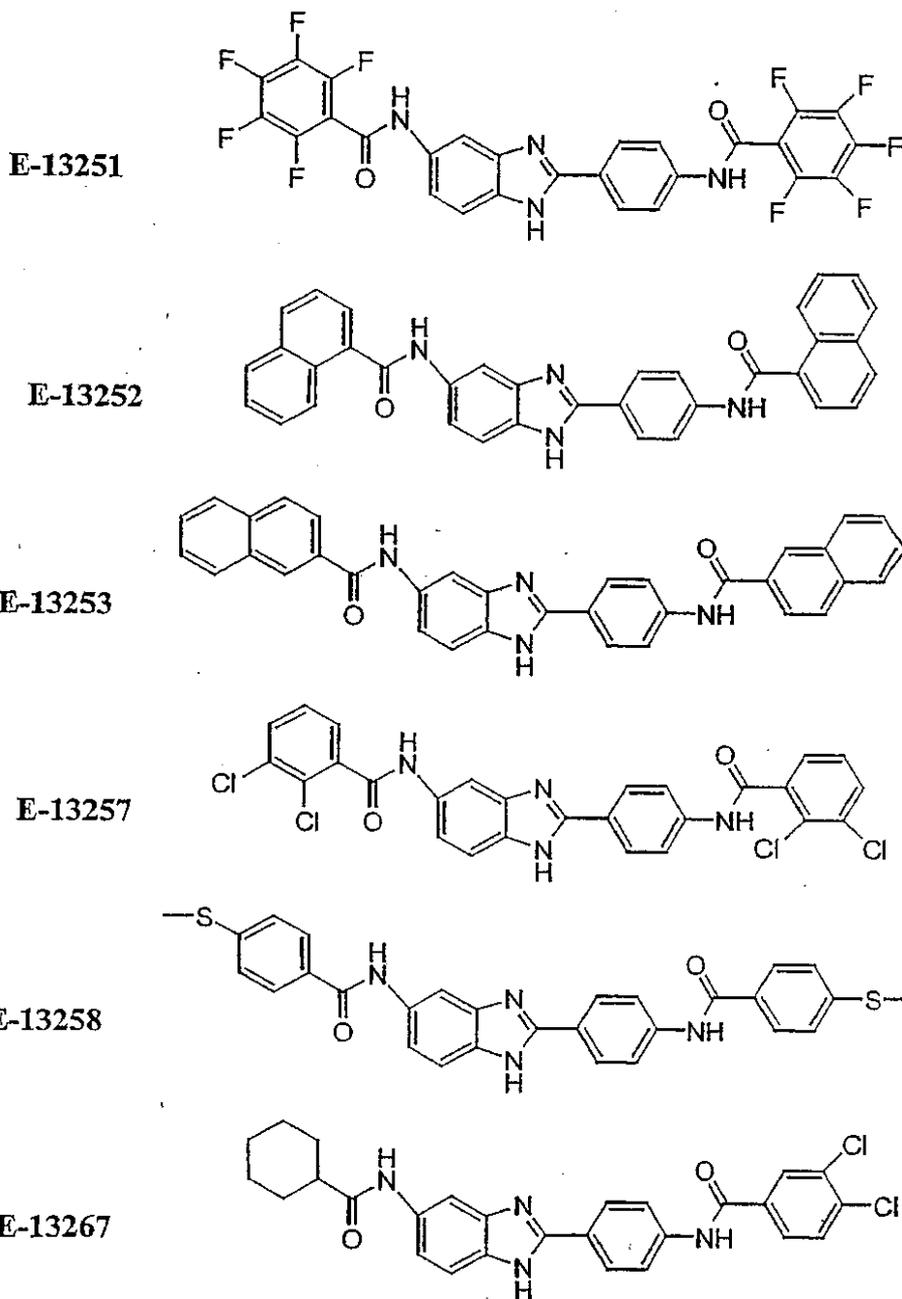
E-13247



E-13250



【化76】

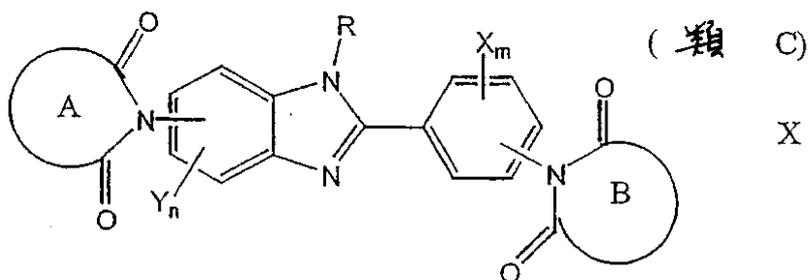


からなる群から選択される、請求項3に記載の使用。

【請求項5】

癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用であって、前記化合物は、式

【化77】



を有し、

XおよびYは、異なるかまたは同じであり、H、ハロゲン、アルキル、アルコキシ、アリール、置換アリール、ヒドロキシ、アミノ、アルキルアミノ、シクロアルキル、モルホリン、チオモルホリン、ニトロ、シアノ、 CF_3 、 OCF_3 、 COR_1 、 $COOR_1$ 、 $CONH_2$ 、 $CONHR_1$ 、および $NHCOR_1$ からなる群から個々に選択され、

nは1～4の整数であり、

mは1～4の整数であり、

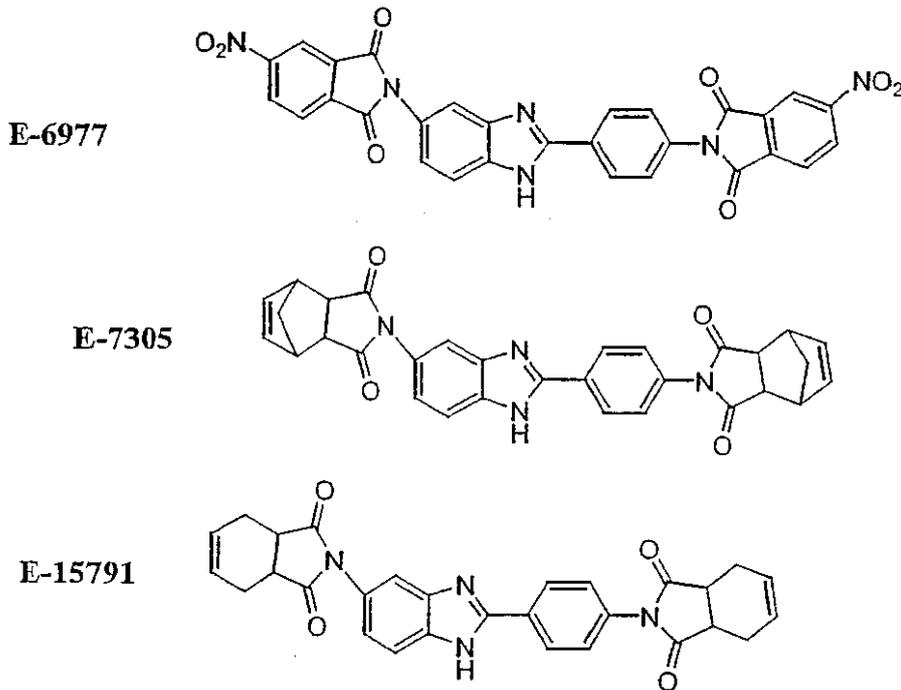
Rは、H、 CH_3 、 C_2H_5 、 C_3H_7 、 C_4H_9 、 CH_2Ph 、 $CH_2C_6H_4-F(p-)$ 、 $COCH_3$ 、 $COCH_2CH_3$ 、 $CH_2CH_2N(CH_3)_2$ 、および $CH_2CH_2CH_2N(CH_3)_2$ からなる群から選択され、

AおよびBの環は、4個の炭素原子～10個の炭素原子の範囲の非置換炭素原子または置換炭素原子を個々に含む、癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用。

【請求項6】

前記化合物は、

【化78】

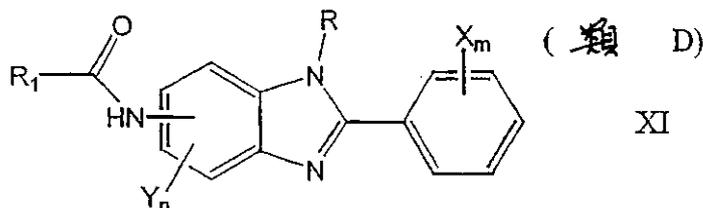


からなる群から選択される、請求項5に記載の使用。

【請求項7】

癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用であって、前記化合物は、式

【化79】



を有し、

XおよびYは、異なるかまたは同じであり、H、ハロゲン、アルキル、アルコキシ、アリール、置換アリール、ヒドロキシ、アミノ、アルキルアミノ、シクロアルキル、モルホ

リン、チオモルホリン、ニトロ、シアノ、 CF_3 、 OCF_3 、 COR_1 、 $COOR_1$ 、 $CONH_2$ 、 $CONHR_1$ 、および $NHCOR_1$ からなる群から個々に選択され、

n は1～3の整数であり、

m は1～5の整数であり、

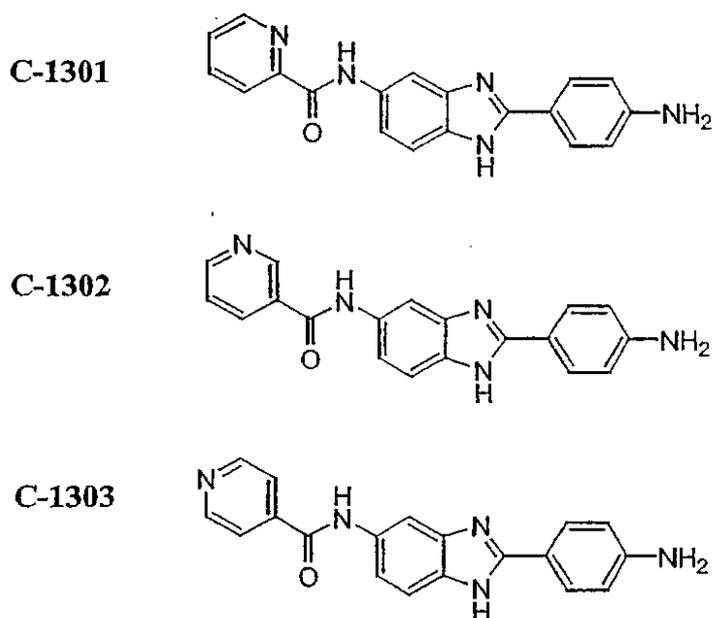
R は、 H 、 CH_3 、 C_2H_5 、 C_3H_7 、 C_4H_9 、 CH_2Ph 、 $CH_2C_6H_4-F(p-)$ 、 $COCH_3$ 、 $COCH_2CH_3$ 、 $CH_2CH_2N(CH_3)_2$ 、および $CH_2CH_2CH_2N(CH_3)_2$ からなる群から選択され、

R_1 は、 H 、アルキル、置換アルキル、アルケニル、置換アルケニル、アルキニル、置換アルキニル、シクロアルキル、置換シクロアルキル、シクロアルケニル、置換シクロアルケニル、ポリシクロアルキル、置換ポリシクロアルキル、ポリシクロアルケニル、置換ポリシクロアルケニル、アリアルアルキル、置換アリアルアルキル、ヘテロアリアルアルキル、置換ヘテロアリアルアルキル、アリアルシクロアルキル、置換アリアルシクロアルキル、ヘテロアリアルシクロアルキル、置換ヘテロアリアルシクロアルキル、アリアル、置換アリアル、ヘテロ環、置換ヘテロ環、ヘテロ原子、および置換ヘテロ原子からなる群から選択される、癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用。

【請求項8】

前記化合物は、

【化80】

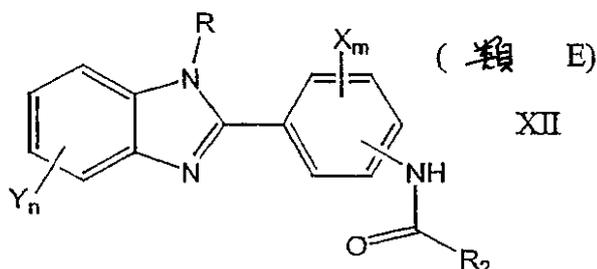


からなる群から選択される、請求項7に記載の使用。

【請求項9】

癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用であって、前記化合物は、式

【化81】



を有し、

XおよびYは、異なるかまたは同じであり、H、ハロゲン、アルキル、アルコキシ、アリール、置換アリール、ベンゾ、ヒドロキシ、アミノ、アルキルアミノ、シクロアルキル、モルホリン、チオモルホリン、ニトロ、シアノ、 CF_3 、 OCF_3 、 COR_2 、 $COOR_2$ 、 $CONH_2$ 、 $CONHR_2$ 、および $NHCOR_2$ からなる群から個々に選択され、

nは1～4の整数であり、

mは1～4の整数であり、

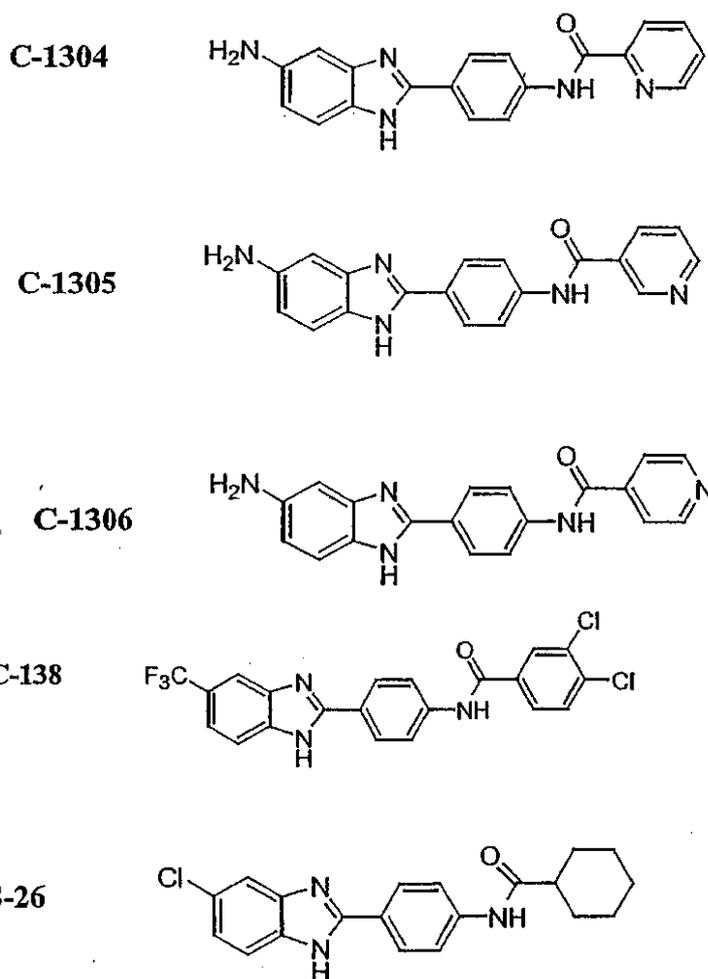
Rは、H、 CH_3 、 C_2H_5 、 C_3H_7 、 C_4H_9 、 CH_2Ph 、 $CH_2C_6H_4-F(p-)$ 、 $COCH_3$ 、 $COCH_2CH_3$ 、 $CH_2CH_2N(CH_3)_2$ 、および $CH_2CH_2CH_2N(CH_3)_2$ からなる群から選択され、

R_2 は、H、アルキル、置換アルキル、アルケニル、置換アルケニル、アルキニル、置換アルキニル、シクロアルキル、置換シクロアルキル、シクロアルケニル、置換シクロアルケニル、ポリシクロアルキル、置換ポリシクロアルキル、ポリシクロアルケニル、置換ポリシクロアルケニル、アリールアルキル、置換アリールアルキル、ヘテロアリールアルキル、置換ヘテロアリールアルキル、アリールシクロアルキル、置換アリールシクロアルキル、ヘテロアリールシクロアルキル、置換ヘテロアリールシクロアルキル、アリール、置換アリール、ヘテロ環、置換ヘテロ環、ヘテロ原子、および置換ヘテロ原子からなる群から選択される、癌に罹患した哺乳動物を治療するための製剤を調製するための化合物の使用。

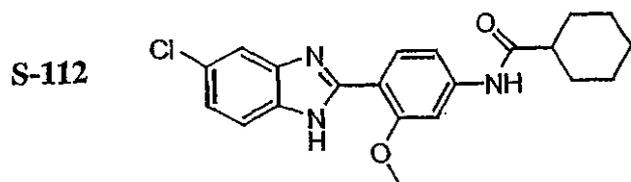
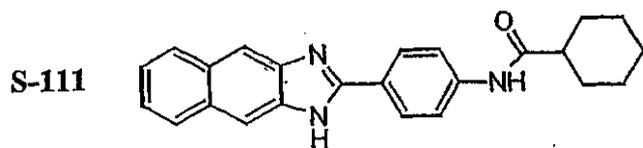
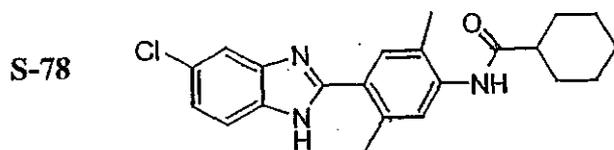
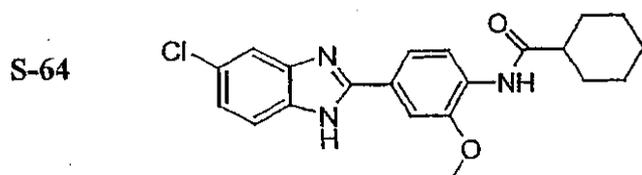
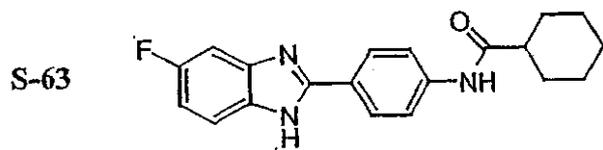
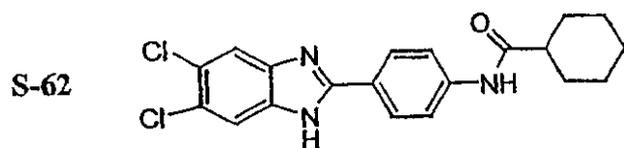
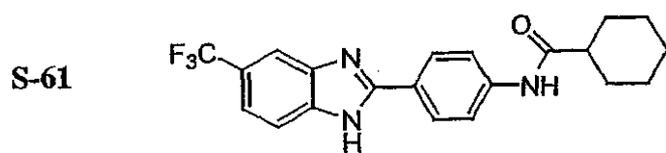
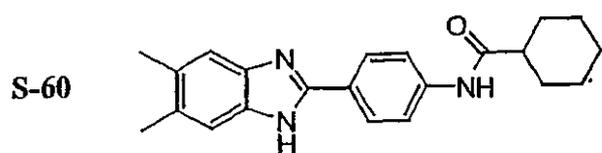
【請求項10】

前記化合物は、

【化82】

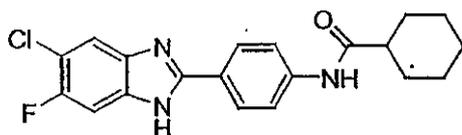


【化 8 3】

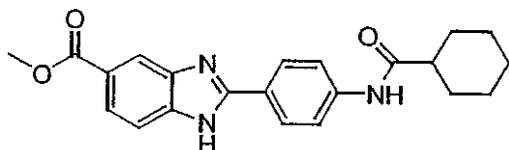


【化 8 4】

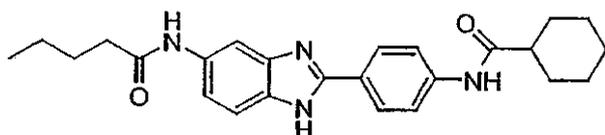
S-113



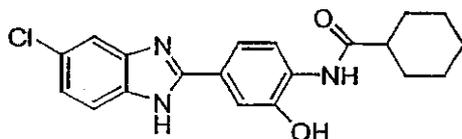
S-114



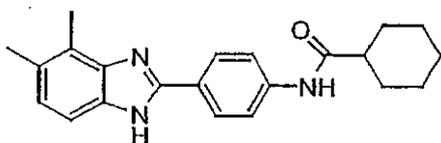
S-115



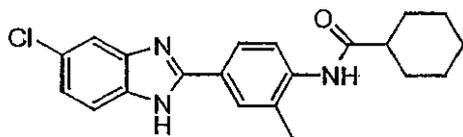
S-116



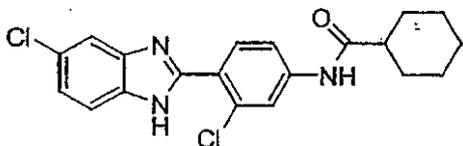
S-117



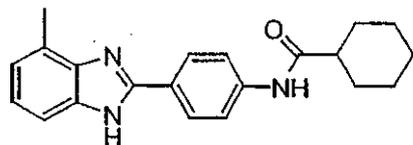
S-118



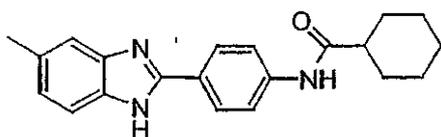
S-119



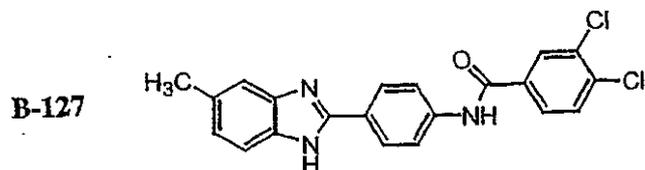
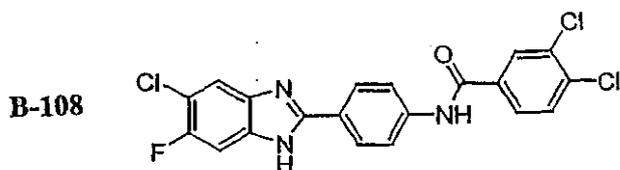
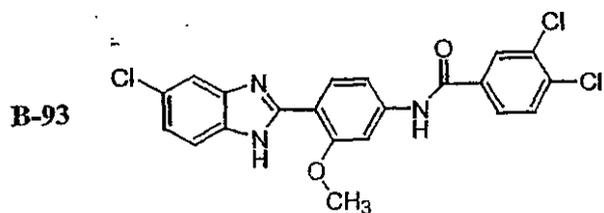
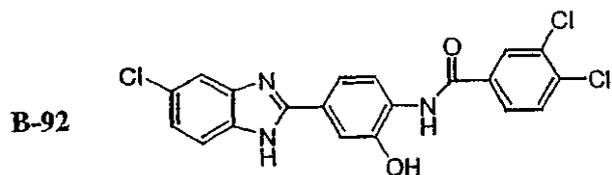
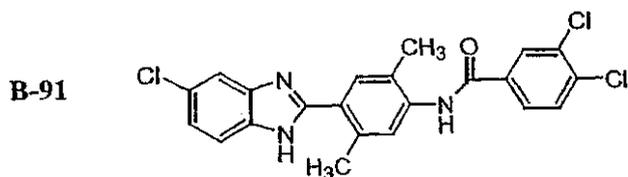
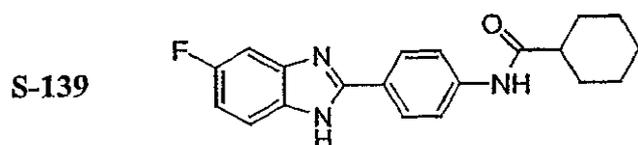
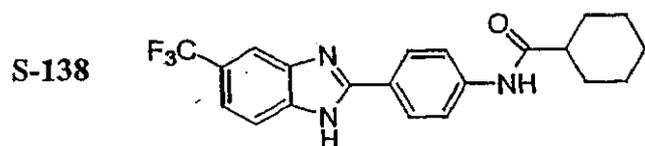
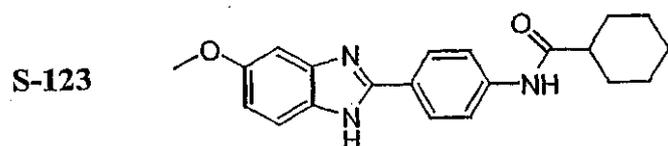
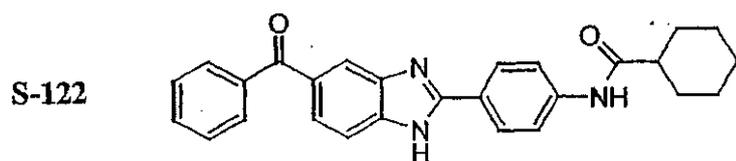
S-120



S-121

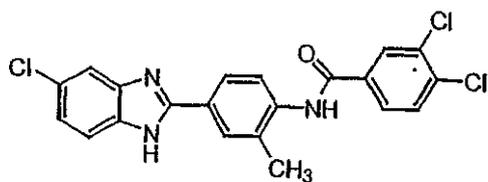


【化 8 5】

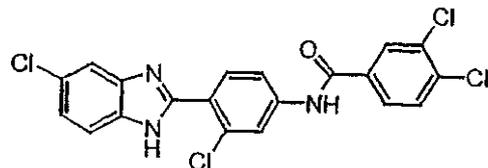


【化 8 6】

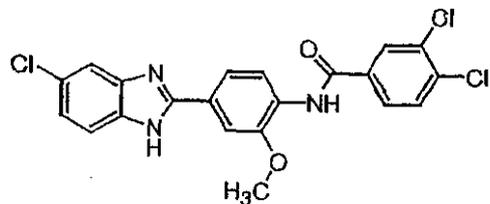
B-128



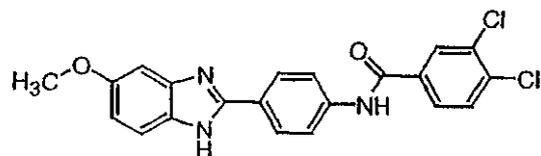
B-129



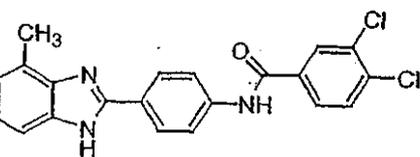
B-130



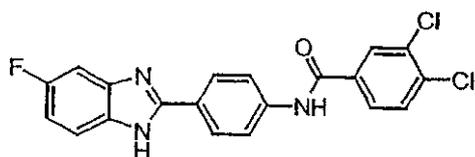
B-131



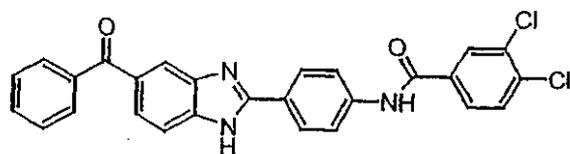
B-133



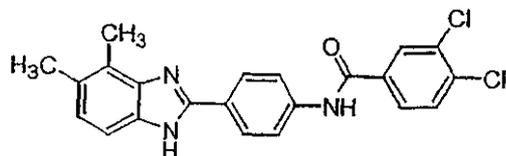
B-134



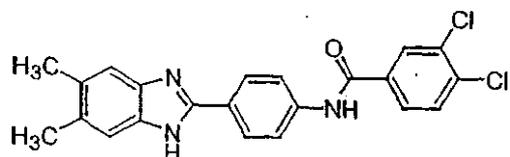
B-135



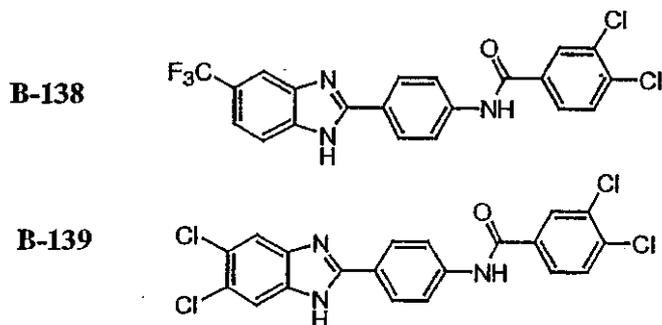
B-136



B-137



【化 8 7】



からなる群から選択される、請求項 9 に記載の使用。

【請求項 1 1】

前記製剤は、細胞増殖に関連する少なくとも 1 つの症候を減ずる活性のある、少なくとも 1 つの追加成分をさらに含む、請求項 1 から 1 0 のいずれかに記載の使用。

【請求項 1 2】

前記少なくとも 1 つの追加成分は、抗真菌剤、抗ウイルス剤、抗生物質、抗炎症剤、および抗癌剤からなる群から選択される、請求項 1 1 に記載の使用。

【請求項 1 3】

前記少なくとも 1 つの追加成分は、アルキル化剤、代謝拮抗物質、DNA カッター、トポイソメラーゼ I 型阻害剤、トポイソメラーゼ II 型阻害剤、DNA バインダ、および紡錘体阻害剤からなる群から選択される、請求項 1 1 に記載の使用。

【請求項 1 4】

前記製剤は、1 日当たり体重 1 kg につき約 0.01 mg ~ 約 100 mg の投与量を前記哺乳動物に与えるために調製される、請求項 1 から請求項 1 3 のいずれかに記載の使用。