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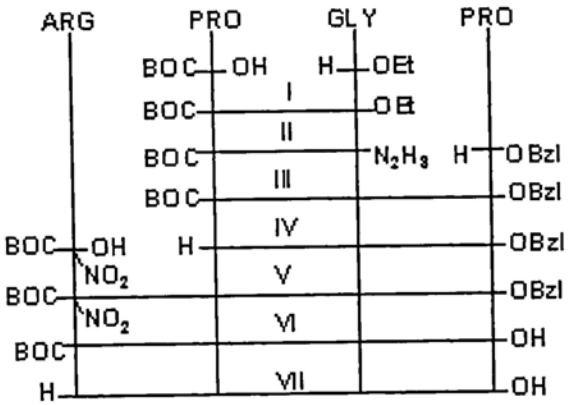
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(54)发明名称

用于生产重组肽的方法及所得到的肽

(57)摘要

本发明涉及用于生产重组肽的方法及所得到的肽。本发明涉及生物化学及生物技术并且涉及生产具有性功能及生殖功能刺激活性的肽，所述肽具有下述通式:A-Thr-Lys-Pro-B-C-D-X，其中A为0、Met、Met(O)、Thr、Ala、His、Phe、Lys、Gly，B为0、Gly、Asp、Trp、Gln、Asn、Tyr、Pro、Arg，C为0、Arg、Phe、Tyr、Gly、His、Pro、Lys，D为0、Val、Gly、Tyr、Trp、Phe、His，X为OH、OCH_3、NH_2，其中0是没有氨基酸残基，条件是如果A≠0，则B和/或C和/或D≠0，且如果B≠0，则C和/或D≠0，不包括肽Phe-Thr-Lys-Pro-Gly、Thr-Lys-Pro-Pro-Arg、Thr-Lys-Pro-Arg-Gly。本发明还涉及通过基因工程方法生产所述肽的方法。



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1.一种药物组合物,其包含式Thr-Lys-Pro-Arg-Pro-X的肽,其中X为羧基端OH、OCH_3或NH_2基。

2.根据权利要求1所述的药物组合物,其中所述肽以对于刺激性或生殖功能有效的量存在于所述组合物中。

3.根据权利要求1所述的药物组合物,其中所述肽通过在重组微生物中的表达来生产。

4.根据权利要求1所述的药物组合物,其中所述肽通过化学合成来生产。

用于生产重组肽的方法及所得到的肽

[0001] 本申请是申请日2013年5月28日、申请号为201380028491.4的专利申请“用于生产重组肽的方法及所得到的肽”的分案申请。

技术领域

[0002] 本发明涉及生物化学领域，并与生产肽的重组方法和生成的肽相关。特别地，本发明涉及具有下列通式的肽：

[0003] A-Thr-Lys-Pro-B-C-D-X，其中：

[0004] A-0、Met、Met(O)、Thr、Ala、His、Phe、Lys、Gly

[0005] B-0、Gly、Asp、Trp、Gln、Asn、Tyr、Pro、Arg

[0006] C-0、Arg、Phe、Tyr、Gly、His、Pro、Lys

[0007] D-0、Val、Gly、Tyr、Trp、Phe、His

[0008] X-OH、OCH_3、NH_2，

[0009] 其中0是没有氨基酸残基，条件是如果A≠0，则B和/或C和/或D≠0，如果B≠0，则C和/或D≠0，不包括肽Phe-Thr-Lys-Pro-Gly(SEQ ID NO:1)、Thr-Lys-Pro-Pro-Arg(SEQ ID NO:2)、Thr-Lys-Pro-Arg-Gly(SEQ ID NO:3)。

背景技术

[0010] 已知小肽显示极高的活性，在发生紊乱的器官中刺激自我愈合。众所周知，较小的肽最初来源于动物组织，随后人们在实验室条件下学会了生产它们。

[0011] 含肽的医药产品能够再生受损体细胞，使丧失的功能恢复到受影响器官，并使其恢复活力。三十多年前已开发含肽的医药产品；自此以后，已进行了数百次试验，证明了肽在治疗和预防各种全身系统疾病以及单一器官-和全身-恢复活力中的效力。

[0012] 在体内，肽充当信息使者：它们将信息由一个细胞转移到另一细胞，从而使所有事件能够良好并及时完成。如果一个细胞正常运行，则相应器官运转良好。如果发生失调，则影响整个器官，导致疾病。显然，通过将缺失物质导入身体能够治疗疾病，但是该方法会完全“宠坏”细胞，细胞会适当地终止正常运行。因此，需要使肽使者(peptide messengers)输送到细胞，使其发挥功能，从而身体将自我愈合。各器官具有储备干细胞的供应库。如果该供应库完全耗尽，人存活100-110岁。肽对于所有哺乳动物是一样的。因此，如果将牛肽(calf peptide)导入到人类，人类身体将把其当作天然分子。主要的问题是发现如何从动物器官分离肽。早在1971年由Vladimir Morozov教授和Vyacheslav Havinson教授在Military Medical Academy中发明了该技术。开发了医药产品，然后，基于此，制造了食物增补剂，这是因为食物增补剂使用方便。在他们对老化过程及其影响方法的研究中，圣彼得堡老年学研究所(St.Petersburg Institute of Gerontology)的员工得出结论：将肽导入到小鼠实验组饮食使它们的预期寿命(life expectancy)增加30-38％。随后，在老年学基辅研究所(Kiev Institute of Gerontology)和圣彼得堡进行了对老年人的肽研究。这显示死亡率几乎降低2倍，表现出肽的高老化保护(geroprotective)活性。肽医药产品的长期

研究和使用显示它们在不同年龄组患者中的效力高;然而,在老人(50多岁)中观察到特别的效力。肽生物调节物的绝对优势为没有任何不良反应。26年来,超过1500万患有各种病理的人接受该产品。它们的效力平均为75-95%。随着年龄和病理变化肽缺乏显著地加快组织消耗和身体老化。事实上,细胞和组织充分发挥功能需要充足量的肽,这反过来,支持基因发挥最佳功能。在对其特异性的细胞中发挥功能的肽在该处合成。因此,在病理变化以及老化时,细胞功能被破坏;因而,同样地影响肽的再生。相应地,继而影响细胞功能。因此,组织进程的退化,最终表现于临床。所以,在医学中小肽的应用是主要的创新之一,并且通过刺激细胞增殖和组织再生可显著地减慢老化速度,并且延长细胞寿命。肽的另一重要优点是它们的抗肿瘤作用。目前,在康复(身体恢复活力)和癌症预防中使用肽是最好的不二之选,因为其不仅通过调节和同步化所有周期过程,而且通过提高细胞分裂的能力使细胞和组织恢复活力,而没有异型(异型(atypia)为不正常的细胞结构,或异常)。

[0013] 当然,现阶段的技术中,由动物组织生产小肽是不切实际的,因为该方法非常昂贵,更不用说生产方法的人道性。

[0014] 现代先进的生产方法包括使用重组微生物。最方便的微生物为大肠杆菌(E.coli)。现有技术中已知适于实验室条件的大肠杆菌的商用菌株,例如大肠杆菌K12、大肠杆菌0104。这些及类似的已知大肠杆菌菌株可用于获得生产请求保护的小肽的菌株。编码相应靶标小肽的核酸可整合到适于实验室条件的任何已知菌株中。载体,例如细菌质粒、病毒、病毒体、含噬菌体DNA的杂合载体、和质粒用于将DNA插入到宿主细胞中。这些载体包括,比如粘粒和噬粒。

[0015] 此外,通过常规化学合成可生产肽。

[0016] 提出的肽解决了扩展用于刺激生殖功能和性功能以及治疗生殖功能障碍和性功能障碍的工具范围的问题,该问题目前仍然适用。当前,使用心理疗法、抗抑郁药、抗焦虑药、适应原(Adaptogens)以及维生素、一般植物类刺激物和饮食增补剂进行该病理的发病机理治疗。该治疗长期、低效并伴随许多副作用。

[0017] 适于生殖功能和性功能的刺激物产生的最有效类型的生理活性物质之一为作为内源性物质的,实质上不具有消极副作用的肽。

[0018] 我们自己的研究显示具有通式Thr-Lys-Pro-Arg-Pro-Gly-Pro(SEQ ID NO:2680)的七肽Selank(内源性产生的肽Tuftsin的合成类似物)可用作预防和治疗生殖功能障碍及性功能障碍的工具(俄罗斯联邦专利第2404793号)。然而,七肽Selank的合成是多阶段的,这大大增加了基于此的医药产品的成本;另外,在体内其受到强烈的蛋白水解,这降低了其对预防和治疗生殖功能障碍及性功能障碍的刺激作用。

发明内容

[0019] 发明的目的是扩展具有生殖功能和性功能刺激活性的工具的范围。

[0020] 当实施本发明时实现的技术结果是增强预防和治疗生殖功能障碍及性功能障碍的效力,降低疗程持续时间和药疗法的成本降低,其中提出具有下列通式的肽作为医药产品:

[0021] A-Thr-Lys-Pro-B-C-D-X,其中:

[0022] A -0、Met、Met(O)、Thr、Ala、His、Phe、Lys、Gly

[0023] B-0、Gly、Asp、Trp、Gln、Asn、Tyr、Pro、Arg

[0024] C-0、Arg、Phe、Tyr、Gly、His、Pro、Lys

[0025] D-0、Val、Gly、Tyr、Trp、Phe、His

[0026] X-OH、OCH_3、NH_2，

[0027] 其中0指没有氨基酸残基。

[0028] 条件是如果A≠0，则B和/或C和/或D≠0；如果B≠0，则C和/或D≠0，不包括肽Phe-Thr-Lys-Pro-Gly(SEQ ID NO:1)、Thr-Lys-Pro-Pro-Arg(SEQ ID NO:2)、Thr-Lys-Pro-Arg-Gly(SEQ ID NO:3)。

[0029] 在位置A、B、C、D和X的氨基酸残基的选择基于数据库[EROP-Moscow(http://erop.inbi.ras.ru/)Zamyatin A.A.]中N末端和C末端氨基酸残基的相应位置上氨基酸残基频率的生物信息学分析。基于在此位置上氨基酸残基大于50％发生率的标准进行这些氨基酸残基的选择。该氨基酸残基样品通过单个肽的合成以及它们在活体模型中生殖功能活性和性功能活性的刺激试验来试验性证实。通过试验确定药效团在肽中位置。已知任何肽暴露于肽酶并降解为特定片段。为此，在合成Selank七肽片段：Thr-Lys(SEQ ID NO:2678)、Thr-Lys-Pro(SEQ ID NO:5)、Pro-Gly-Pro(SEQ ID NO:2677)、Arg-Pro-Gly-Pro(SEQ ID NO:2676)、Pro-Arg-Pro-Gly-Pro(SEQ ID NO:2675)后，研究它们的活性。结果提供于表4中。在该分析中，确定药效团：其为Thr-Lys-Pro(SEQ ID NO:5)。如研究(表5，实施例10)所示，显示将单独试验性鉴定的氨基酸残基附加到C末端保持肽活性(刺激生殖功能和性功能)，假定肽中氨基酸残基数为3或大于4。四肽不具有生殖功能和性功能刺激活性。

[0030] 通过具有通式A-Thr-Lys-Pro-B-C-D-X的各种肽(不包括四肽)的定向合成并通过使用这些肽作为用于预防和治疗生殖功能障碍及性功能障碍的生殖功能及性功能刺激物实现提到的技术结果。我们自己的研究显示可将合成肽，即对应于通式A-Thr-Lys-Pro-B-C-D-X的Thr-Lys-Pro(SEQ ID NO:5)三肽、Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6)五肽和Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)六肽推荐为生殖功能和性功能刺激物。

[0031] 具有通式A-Thr-Lys-Pro-B-C-D-X的全部肽(不包括四肽)推荐为生殖功能和性功能刺激物，具有共同的模式，即在其分子结构中存在Thr-Lys-Pro三肽分子。

[0032] Thr-Lys-Pro-Arg-Pro-Gly-Pro(SEQ ID NO:2680)七肽(Selank)用作对照。

[0033] 进行研究的结果显示具有通式A-Thr-Lys-Pro-B-C-D-X的肽(不包括四肽)具有生殖功能和性功能刺激活性，并且可用作用于预防和治疗生殖功能障碍及性功能障碍的医药产品。

[0034] 通式A-Thr-Lys-Pro-B-C-D-X的某些肽示于表1中。

[0035] 表1

[0036]

X-OH	X-OCH_3	X-NH_2	SEQ ID NO
Thr-Lys-Pro	Thr-Lys-Pro	Thr-Lys-Pro	5
Thr-Lys-Pro-Arg-His	Thr-Lys-Pro-Arg-His	Thr-Lys-Pro-Arg-His	8
Thr-Lys-Pro-Phe-His	Thr-Lys-Pro-Phe-His	Thr-Lys-Pro-Phe-His	9
Thr-Lys-Pro-Tyr-His	Thr-Lys-Pro-Tyr-His	Thr-Lys-Pro-Tyr-His	10
Thr-Lys-Pro-Gly-His	Thr-Lys-Pro-Gly-His	Thr-Lys-Pro-Gly-His	11
Thr-Lys-Pro-His-His	Thr-Lys-Pro-His-His	Thr-Lys-Pro-His-His	12
Thr-Lys-Pro-Lys-His	Thr-Lys-Pro-Lys-His	Thr-Lys-Pro-Lys-His	13
Thr-Lys-Pro-Gly-His	Thr-Lys-Pro-Gly-His	Thr-Lys-Pro-Gly-His	14
Thr-Lys-Pro-Gly-Arg-His	Thr-Lys-Pro-Gly-Arg-His	Thr-Lys-Pro-Gly-Arg-His	15
Thr-Lys-Pro-Gly-Phe-His	Thr-Lys-Pro-Gly-Phe-His	Thr-Lys-Pro-Gly-Phe-His	16
Thr-Lys-Pro-Gly-Tyr-His	Thr-Lys-Pro-Gly-Tyr-His	Thr-Lys-Pro-Gly-Tyr-His	17
Thr-Lys-Pro-Gly-His-His	Thr-Lys-Pro-Gly-His-His	Thr-Lys-Pro-Gly-His-His	18
Thr-Lys-Pro-Gly-Pro-His	Thr-Lys-Pro-Gly-Pro-His	Thr-Lys-Pro-Gly-Pro-His	19
Thr-Lys-Pro-Gly-Lys-His	Thr-Lys-Pro-Gly-Lys-His	Thr-Lys-Pro-Gly-Lys-His	20
Thr-Lys-Pro-Asp-His	Thr-Lys-Pro-Asp-His	Thr-Lys-Pro-Asp-His	21
Thr-Lys-Pro-Asp-Arg-His	Thr-Lys-Pro-Asp-Arg-His	Thr-Lys-Pro-Asp-Arg-His	22
Thr-Lys-Pro-Asp-Phe-His	Thr-Lys-Pro-Asp-Phe-His	Thr-Lys-Pro-Asp-Phe-His	23
Thr-Lys-Pro-Asp-Tyr-His	Thr-Lys-Pro-Asp-Tyr-His	Thr-Lys-Pro-Asp-Tyr-His	24
Thr-Lys-Pro-Asp-His-His	Thr-Lys-Pro-Asp-His-His	Thr-Lys-Pro-Asp-His-His	25
Thr-Lys-Pro-Asp-Pro-His	Thr-Lys-Pro-Asp-Pro-His	Thr-Lys-Pro-Asp-Pro-His	26
Thr-Lys-Pro-Asp-Lys-His	Thr-Lys-Pro-Asp-Lys-His	Thr-Lys-Pro-Asp-Lys-His	27
Thr-Lys-Pro-Trp-His	Thr-Lys-Pro-Trp-His	Thr-Lys-Pro-Trp-His	28
Thr-Lys-Pro-Trp-Arg-His	Thr-Lys-Pro-Trp-Arg-His	Thr-Lys-Pro-Trp-Arg-His	29
Thr-Lys-Pro-Trp-Phe-His	Thr-Lys-Pro-Trp-Phe-His	Thr-Lys-Pro-Trp-Phe-His	30
Thr-Lys-Pro-Trp-Tyr-His	Thr-Lys-Pro-Trp-Tyr-His	Thr-Lys-Pro-Trp-Tyr-His	31
Thr-Lys-Pro-Trp-His-His	Thr-Lys-Pro-Trp-His-His	Thr-Lys-Pro-Trp-His-His	32
Thr-Lys-Pro-Trp-Pro-His	Thr-Lys-Pro-Trp-Pro-His	Thr-Lys-Pro-Trp-Pro-His	33
Thr-Lys-Pro-Trp-Lys-His	Thr-Lys-Pro-Trp-Lys-His	Thr-Lys-Pro-Trp-Lys-His	34
Thr-Lys-Pro-Gln-His	Thr-Lys-Pro-Gln-His	Thr-Lys-Pro-Gln-His	35
Thr-Lys-Pro-Gln-Arg-His	Thr-Lys-Pro-Gln-Arg-His	Thr-Lys-Pro-Gln-Arg-His	36
Thr-Lys-Pro-Gln-Phe-His	Thr-Lys-Pro-Gln-Phe-His	Thr-Lys-Pro-Gln-Phe-His	37
Thr-Lys-Pro-Gln-Tyr-His	Thr-Lys-Pro-Gln-Tyr-His	Thr-Lys-Pro-Gln-Tyr-His	38
Thr-Lys-Pro-Gln-His-His	Thr-Lys-Pro-Gln-His-His	Thr-Lys-Pro-Gln-His-His	39
Thr-Lys-Pro-Gln-Pro-His	Thr-Lys-Pro-Gln-Pro-His	Thr-Lys-Pro-Gln-Pro-His	40
Thr-Lys-Pro-Gln-Lys-His	Thr-Lys-Pro-Gln-Lys-His	Thr-Lys-Pro-Gln-Lys-His	41
Thr-Lys-Pro-Asn-His	Thr-Lys-Pro-Asn-His	Thr-Lys-Pro-Asn-His	42
Thr-Lys-Pro-Asn-Arg-His	Thr-Lys-Pro-Asn-Arg-His	Thr-Lys-Pro-Asn-Arg-His	43
Thr-Lys-Pro-Asn-Phe-His	Thr-Lys-Pro-Asn-Phe-His	Thr-Lys-Pro-Asn-Phe-His	44
Thr-Lys-Pro-Asn-Tyr-His	Thr-Lys-Pro-Asn-Tyr-His	Thr-Lys-Pro-Asn-Tyr-His	45

[0037]

Thr-Lys-Pro-Asn-His-His	Thr-Lys-Pro-Asn-His-His	Thr-Lys-Pro-Asn-His-His	46
Thr-Lys-Pro-Asn-Pro-His	Thr-Lys-Pro-Asn-Pro-His	Thr-Lys-Pro-Asn-Pro-His	47
Thr-Lys-Pro-Asn-Lys-His	Thr-Lys-Pro-Asn-Lys-His	Thr-Lys-Pro-Asn-Lys-His	48
Thr-Lys-Pro-Tyr-His	Thr-Lys-Pro-Tyr-His	Thr-Lys-Pro-Tyr-His	49
Thr-Lys-Pro-Tyr-Arg-His	Thr-Lys-Pro-Tyr-Arg-His	Thr-Lys-Pro-Tyr-Arg-His	50
Thr-Lys-Pro-Tyr-Phe-His	Thr-Lys-Pro-Tyr-Phe-His	Thr-Lys-Pro-Tyr-Phe-His	51
Thr-Lys-Pro-Tyr-Tyr-His	Thr-Lys-Pro-Tyr-Tyr-His	Thr-Lys-Pro-Tyr-Tyr-His	52
Thr-Lys-Pro-Tyr-His-His	Thr-Lys-Pro-Tyr-His-His	Thr-Lys-Pro-Tyr-His-His	53
Thr-Lys-Pro-Tyr-Pro-His	Thr-Lys-Pro-Tyr-Pro-His	Thr-Lys-Pro-Tyr-Pro-His	54
Thr-Lys-Pro-Tyr-Lys-His	Thr-Lys-Pro-Tyr-Lys-His	Thr-Lys-Pro-Tyr-Lys-His	55
Thr-Lys-Pro-Arg-His	Thr-Lys-Pro-Arg-His	Thr-Lys-Pro-Arg-His	56
Thr-Lys-Pro-Arg-Arg-His	Thr-Lys-Pro-Arg-Arg-His	Thr-Lys-Pro-Arg-Arg-His	57
Thr-Lys-Pro-Arg-Phe-His	Thr-Lys-Pro-Arg-Phe-His	Thr-Lys-Pro-Arg-Phe-His	58
Thr-Lys-Pro-Arg-Tyr-His	Thr-Lys-Pro-Arg-Tyr-His	Thr-Lys-Pro-Arg-Tyr-His	59
Thr-Lys-Pro-Arg-His-His	Thr-Lys-Pro-Arg-His-His	Thr-Lys-Pro-Arg-His-His	60
Thr-Lys-Pro-Arg-Pro-His	Thr-Lys-Pro-Arg-Pro-His	Thr-Lys-Pro-Arg-Pro-His	61
Thr-Lys-Pro-Arg-Lys-His	Thr-Lys-Pro-Arg-Lys-His	Thr-Lys-Pro-Arg-Lys-His	62
Met-Thr-Lys-Pro-His	Met-Thr-Lys-Pro-His	Met-Thr-Lys-Pro-His	63
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Met-Thr-Lys-Pro-Trp-Pro	Met-Thr-Lys-Pro-Trp-Pro	Met-Thr-Lys-Pro-Trp-Pro	522
Met-Thr-Lys-Pro-Trp-Lys	Met-Thr-Lys-Pro-Trp-Lys	Met-Thr-Lys-Pro-Trp-Lys	523
Met-Thr-Lys-Pro-Gln	Met-Thr-Lys-Pro-Gln	Met-Thr-Lys-Pro-Gln	524
Met-Thr-Lys-Pro-Gln-Arg	Met-Thr-Lys-Pro-Gln-Arg	Met-Thr-Lys-Pro-Gln-Arg	525
Met-Thr-Lys-Pro-Gln-Phe	Met-Thr-Lys-Pro-Gln-Phe	Met-Thr-Lys-Pro-Gln-Phe	526
Met-Thr-Lys-Pro-Gln-Tyr	Met-Thr-Lys-Pro-Gln-Tyr	Met-Thr-Lys-Pro-Gln-Tyr	527
Met-Thr-Lys-Pro-Gln-His	Met-Thr-Lys-Pro-Gln-His	Met-Thr-Lys-Pro-Gln-His	528
Met-Thr-Lys-Pro-Gln-Pro	Met-Thr-Lys-Pro-Gln-Pro	Met-Thr-Lys-Pro-Gln-Pro	529
Met-Thr-Lys-Pro-Gln-Lys	Met-Thr-Lys-Pro-Gln-Lys	Met-Thr-Lys-Pro-Gln-Lys	530
Met-Thr-Lys-Pro-Asn	Met-Thr-Lys-Pro-Asn	Met-Thr-Lys-Pro-Asn	531
Met-Thr-Lys-Pro-Asn-Arg	Met-Thr-Lys-Pro-Asn-Arg	Met-Thr-Lys-Pro-Asn-Arg	532
Met-Thr-Lys-Pro-Asn-Phe	Met-Thr-Lys-Pro-Asn-Phe	Met-Thr-Lys-Pro-Asn-Phe	533
Met-Thr-Lys-Pro-Asn-Tyr	Met-Thr-Lys-Pro-Asn-Tyr	Met-Thr-Lys-Pro-Asn-Tyr	534
Met-Thr-Lys-Pro-Asn-His	Met-Thr-Lys-Pro-Asn-His	Met-Thr-Lys-Pro-Asn-His	535
Met-Thr-Lys-Pro-Asn-Pro	Met-Thr-Lys-Pro-Asn-Pro	Met-Thr-Lys-Pro-Asn-Pro	536
Met-Thr-Lys-Pro-Asn-Lys	Met-Thr-Lys-Pro-Asn-Lys	Met-Thr-Lys-Pro-Asn-Lys	537
Met-Thr-Lys-Pro-Tyr	Met-Thr-Lys-Pro-Tyr	Met-Thr-Lys-Pro-Tyr	538
Met-Thr-Lys-Pro-Tyr-Arg	Met-Thr-Lys-Pro-Tyr-Arg	Met-Thr-Lys-Pro-Tyr-Arg	539
Met-Thr-Lys-Pro-Tyr-Phe	Met-Thr-Lys-Pro-Tyr-Phe	Met-Thr-Lys-Pro-Tyr-Phe	540
Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	541
Met-Thr-Lys-Pro-Tyr-His	Met-Thr-Lys-Pro-Tyr-His	Met-Thr-Lys-Pro-Tyr-His	542
Met-Thr-Lys-Pro-Tyr-Pro	Met-Thr-Lys-Pro-Tyr-Pro	Met-Thr-Lys-Pro-Tyr-Pro	543
Met-Thr-Lys-Pro-Tyr-Lys	Met-Thr-Lys-Pro-Tyr-Lys	Met-Thr-Lys-Pro-Tyr-Lys	544
Met-Thr-Lys-Pro-Arg	Met-Thr-Lys-Pro-Arg	Met-Thr-Lys-Pro-Arg	545
Met-Thr-Lys-Pro-Arg-Arg	Met-Thr-Lys-Pro-Arg-Arg	Met-Thr-Lys-Pro-Arg-Arg	546
Met-Thr-Lys-Pro-Arg-Phe	Met-Thr-Lys-Pro-Arg-Phe	Met-Thr-Lys-Pro-Arg-Phe	547
Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	548
Met-Thr-Lys-Pro-Arg-His	Met-Thr-Lys-Pro-Arg-His	Met-Thr-Lys-Pro-Arg-His	549
Met-Thr-Lys-Pro-Arg-Pro	Met-Thr-Lys-Pro-Arg-Pro	Met-Thr-Lys-Pro-Arg-Pro	550
Met-Thr-Lys-Pro-Arg-Lys	Met-Thr-Lys-Pro-Arg-Lys	Met-Thr-Lys-Pro-Arg-Lys	551
Met(O)-Thr-Lys-Pro-Arg	Met(O)-Thr-Lys-Pro-Arg	Met(O)-Thr-Lys-Pro-Arg	552
Met(O)-Thr-Lys-Pro-Phe	Met(O)-Thr-Lys-Pro-Phe	Met(O)-Thr-Lys-Pro-Phe	553
Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	554
Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	555
Met(O)-Thr-Lys-Pro-His	Met(O)-Thr-Lys-Pro-His	Met(O)-Thr-Lys-Pro-His	556
Met(O)-Thr-Lys-Pro-Lys	Met(O)-Thr-Lys-Pro-Lys	Met(O)-Thr-Lys-Pro-Lys	557
Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	558

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Met(O)-Thr-Lys-Pro-Gly-Arg	Met(O)-Thr-Lys-Pro-Gly-Arg	Met(O)-Thr-Lys-Pro-Gly-Arg	559
Met(O)-Thr-Lys-Pro-Gly-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe	560
Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	561
Met(O)-Thr-Lys-Pro-Gly-His	Met(O)-Thr-Lys-Pro-Gly-His	Met(O)-Thr-Lys-Pro-Gly-His	562
Met(O)-Thr-Lys-Pro-Gly-Pro	Met(O)-Thr-Lys-Pro-Gly-Pro	Met(O)-Thr-Lys-Pro-Gly-Pro	563
Met(O)-Thr-Lys-Pro-Gly-Lys	Met(O)-Thr-Lys-Pro-Gly-Lys	Met(O)-Thr-Lys-Pro-Gly-Lys	564
Met(O)-Thr-Lys-Pro-Asp	Met(O)-Thr-Lys-Pro-Asp	Met(O)-Thr-Lys-Pro-Asp	565
Met(O)-Thr-Lys-Pro-Asp-Arg	Met(O)-Thr-Lys-Pro-Asp-Arg	Met(O)-Thr-Lys-Pro-Asp-Arg	566
Met(O)-Thr-Lys-Pro-Asp-Phe	Met(O)-Thr-Lys-Pro-Asp-Phe	Met(O)-Thr-Lys-Pro-Asp-Phe	567
Met(O)-Thr-Lys-Pro-Asp-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr	568
Met(O)-Thr-Lys-Pro-Asp-His	Met(O)-Thr-Lys-Pro-Asp-His	Met(O)-Thr-Lys-Pro-Asp-His	569
Met(O)-Thr-Lys-Pro-Asp-Pro	Met(O)-Thr-Lys-Pro-Asp-Pro	Met(O)-Thr-Lys-Pro-Asp-Pro	570
Met(O)-Thr-Lys-Pro-Asp-Lys	Met(O)-Thr-Lys-Pro-Asp-Lys	Met(O)-Thr-Lys-Pro-Asp-Lys	571
Met(O)-Thr-Lys-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp	572
Met(O)-Thr-Lys-Pro-Trp-Arg	Met(O)-Thr-Lys-Pro-Trp-Arg	Met(O)-Thr-Lys-Pro-Trp-Arg	573
Met(O)-Thr-Lys-Pro-Trp-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe	574
Met(O)-Thr-Lys-Pro-Trp-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr	575
Met(O)-Thr-Lys-Pro-Trp-His	Met(O)-Thr-Lys-Pro-Trp-His	Met(O)-Thr-Lys-Pro-Trp-His	576
Met(O)-Thr-Lys-Pro-Trp-Pro	Met(O)-Thr-Lys-Pro-Trp-Pro	Met(O)-Thr-Lys-Pro-Trp-Pro	577
Met(O)-Thr-Lys-Pro-Trp-Lys	Met(O)-Thr-Lys-Pro-Trp-Lys	Met(O)-Thr-Lys-Pro-Trp-Lys	578
Met(O)-Thr-Lys-Pro-Gln	Met(O)-Thr-Lys-Pro-Gln	Met(O)-Thr-Lys-Pro-Gln	579
Met(O)-Thr-Lys-Pro-Gln-Arg	Met(O)-Thr-Lys-Pro-Gln-Arg	Met(O)-Thr-Lys-Pro-Gln-Arg	580
Met(O)-Thr-Lys-Pro-Gln-Phe	Met(O)-Thr-Lys-Pro-Gln-Phe	Met(O)-Thr-Lys-Pro-Gln-Phe	581
Met(O)-Thr-Lys-Pro-Gln-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr	582
Met(O)-Thr-Lys-Pro-Gln-His	Met(O)-Thr-Lys-Pro-Gln-His	Met(O)-Thr-Lys-Pro-Gln-His	583
Met(O)-Thr-Lys-Pro-Gln-Pro	Met(O)-Thr-Lys-Pro-Gln-Pro	Met(O)-Thr-Lys-Pro-Gln-Pro	584
Met(O)-Thr-Lys-Pro-Gln-Lys	Met(O)-Thr-Lys-Pro-Gln-Lys	Met(O)-Thr-Lys-Pro-Gln-Lys	585
Met(O)-Thr-Lys-Pro-Asn	Met(O)-Thr-Lys-Pro-Asn	Met(O)-Thr-Lys-Pro-Asn	586
Met(O)-Thr-Lys-Pro-Asn-Arg	Met(O)-Thr-Lys-Pro-Asn-Arg	Met(O)-Thr-Lys-Pro-Asn-Arg	587
Met(O)-Thr-Lys-Pro-Asn-Phe	Met(O)-Thr-Lys-Pro-Asn-Phe	Met(O)-Thr-Lys-Pro-Asn-Phe	588
Met(O)-Thr-Lys-Pro-Asn-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr	589
Met(O)-Thr-Lys-Pro-Asn-His	Met(O)-Thr-Lys-Pro-Asn-His	Met(O)-Thr-Lys-Pro-Asn-His	590
Met(O)-Thr-Lys-Pro-Asn-Pro	Met(O)-Thr-Lys-Pro-Asn-Pro	Met(O)-Thr-Lys-Pro-Asn-Pro	591
Met(O)-Thr-Lys-Pro-Asn-Lys	Met(O)-Thr-Lys-Pro-Asn-Lys	Met(O)-Thr-Lys-Pro-Asn-Lys	592
Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	593
Met(O)-Thr-Lys-Pro-Tyr-Arg	Met(O)-Thr-Lys-Pro-Tyr-Arg	Met(O)-Thr-Lys-Pro-Tyr-Arg	594
Met(O)-Thr-Lys-Pro-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe	595
Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	596
Met(O)-Thr-Lys-Pro-Tyr-His	Met(O)-Thr-Lys-Pro-Tyr-His	Met(O)-Thr-Lys-Pro-Tyr-His	597
Met(O)-Thr-Lys-Pro-Tyr-Pro	Met(O)-Thr-Lys-Pro-Tyr-Pro	Met(O)-Thr-Lys-Pro-Tyr-Pro	598
Met(O)-Thr-Lys-Pro-Tyr-Lys	Met(O)-Thr-Lys-Pro-Tyr-Lys	Met(O)-Thr-Lys-Pro-Tyr-Lys	599
Met(O)-Thr-Lys-Pro-Arg	Met(O)-Thr-Lys-Pro-Arg	Met(O)-Thr-Lys-Pro-Arg	600
Met(O)-Thr-Lys-Pro-Arg-Arg	Met(O)-Thr-Lys-Pro-Arg-Arg	Met(R)-Thr-Lys-Pro-Arg-Arg	601

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Met(O)-Thr-Lys-Pro-Arg-Phe	Met(O)-Thr-Lys-Pro-Arg-Phe	Met(O)-Thr-Lys-Pro-Arg-Phe	602
Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	603
Met(O)-Thr-Lys-Pro-Arg-His	Met(O)-Thr-Lys-Pro-Arg-His	Met(O)-Thr-Lys-Pro-Arg-His	604
Met(O)-Thr-Lys-Pro-Arg-Pro	Met(O)-Thr-Lys-Pro-Arg-Pro	Met(O)-Thr-Lys-Pro-Arg-Pro	605
Met(O)-Thr-Lys-Pro-Arg-Lys	Met(O)-Thr-Lys-Pro-Arg-Lys	Met(O)-Thr-Lys-Pro-Arg-Lys	606
Thr-Thr-Lys-Pro-Arg	Thr-Thr-Lys-Pro-Arg	Thr-Thr-Lys-Pro-Arg	607
Thr-Thr-Lys-Pro-Phe	Thr-Thr-Lys-Pro-Phe	Thr-Thr-Lys-Pro-Phe	608
Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	609
Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	610
Thr-Thr-Lys-Pro-His	Thr-Thr-Lys-Pro-His	Thr-Thr-Lys-Pro-His	611
Thr-Thr-Lys-Pro-Lys	Thr-Thr-Lys-Pro-Lys	Thr-Thr-Lys-Pro-Lys	612
Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	613
Thr-Thr-Lys-Pro-Gly-Arg	Thr-Thr-Lys-Pro-Gly-Arg	Thr-Thr-Lys-Pro-Gly-Arg	614
Thr-Thr-Lys-Pro-Gly-Phe	Thr-Thr-Lys-Pro-Gly-Phe	Thr-Thr-Lys-Pro-Gly-Phe	615
Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	616
Thr-Thr-Lys-Pro-Gly-His	Thr-Thr-Lys-Pro-Gly-His	Thr-Thr-Lys-Pro-Gly-His	617
Thr-Thr-Lys-Pro-Gly-Pro	Thr-Thr-Lys-Pro-Gly-Pro	Thr-Thr-Lys-Pro-Gly-Pro	618
Thr-Thr-Lys-Pro-Gly-Lys	Thr-Thr-Lys-Pro-Gly-Lys	Thr-Thr-Lys-Pro-Gly-Lys	619
Thr-Thr-Lys-Pro-Asp	Thr-Thr-Lys-Pro-Asp	Thr-Thr-Lys-Pro-Asp	620
Thr-Thr-Lys-Pro-Asp-Arg	Thr-Thr-Lys-Pro-Asp-Arg	Thr-Thr-Lys-Pro-Asp-Arg	621
Thr-Thr-Lys-Pro-Asp-Phe	Thr-Thr-Lys-Pro-Asp-Phe	Thr-Thr-Lys-Pro-Asp-Phe	622
Thr-Thr-Lys-Pro-Asp-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr	623
Thr-Thr-Lys-Pro-Asp-His	Thr-Thr-Lys-Pro-Asp-His	Thr-Thr-Lys-Pro-Asp-His	624
Thr-Thr-Lys-Pro-Asp-Pro	Thr-Thr-Lys-Pro-Asp-Pro	Thr-Thr-Lys-Pro-Asp-Pro	625
Thr-Thr-Lys-Pro-Asp-Lys	Thr-Thr-Lys-Pro-Asp-Lys	Thr-Thr-Lys-Pro-Asp-Lys	626
Thr-Thr-Lys-Pro-Trp	Thr-Thr-Lys-Pro-Trp	Thr-Thr-Lys-Pro-Trp	627
Thr-Thr-Lys-Pro-Trp-Arg	Thr-Thr-Lys-Pro-Trp-Arg	Thr-Thr-Lys-Pro-Trp-Arg	628
Thr-Thr-Lys-Pro-Trp-Phe	Thr-Thr-Lys-Pro-Trp-Phe	Thr-Thr-Lys-Pro-Trp-Phe	629
Thr-Thr-Lys-Pro-Trp-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr	630
Thr-Thr-Lys-Pro-Trp-His	Thr-Thr-Lys-Pro-Trp-His	Thr-Thr-Lys-Pro-Trp-His	631
Thr-Thr-Lys-Pro-Trp-Pro	Thr-Thr-Lys-Pro-Trp-Pro	Thr-Thr-Lys-Pro-Trp-Pro	632
Thr-Thr-Lys-Pro-Trp-Lys	Thr-Thr-Lys-Pro-Trp-Lys	Thr-Thr-Lys-Pro-Trp-Lys	633
Thr-Thr-Lys-Pro-Gln	Thr-Thr-Lys-Pro-Gln	Thr-Thr-Lys-Pro-Gln	634
Thr-Thr-Lys-Pro-Gln-Arg	Thr-Thr-Lys-Pro-Gln-Arg	Thr-Thr-Lys-Pro-Gln-Arg	635
Thr-Thr-Lys-Pro-Gln-Phe	Thr-Thr-Lys-Pro-Gln-Phe	Thr-Thr-Lys-Pro-Gln-Phe	636
Thr-Thr-Lys-Pro-Gln-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr	637
Thr-Thr-Lys-Pro-Gln-His	Thr-Thr-Lys-Pro-Gln-His	Thr-Thr-Lys-Pro-Gln-His	638
Thr-Thr-Lys-Pro-Gln-Pro	Thr-Thr-Lys-Pro-Gln-Pro	Thr-Thr-Lys-Pro-Gln-Pro	639
Thr-Thr-Lys-Pro-Gln-Lys	Thr-Thr-Lys-Pro-Gln-Lys	Thr-Thr-Lys-Pro-Gln-Lys	640
Thr-Thr-Lys-Pro-Asn	Thr-Thr-Lys-Pro-Asn	Thr-Thr-Lys-Pro-Asn	641
Thr-Thr-Lys-Pro-Asn-Arg	Thr-Thr-Lys-Pro-Asn-Arg	Thr-Thr-Lys-Pro-Asn-Arg	642
Thr-Thr-Lys-Pro-Asn-Phe	Thr-Thr-Lys-Pro-Asn-Phe	Thr-Thr-Lys-Pro-Asn-Phe	643
Thr-Thr-Lys-Pro-Asn-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr	644

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Thr-Thr-Lys-Pro-Asn-His	Thr-Thr-Lys-Pro-Asn-His	Thr-Thr-Lys-Pro-Asn-His	645
Thr-Thr-Lys-Pro-Asn-Pro	Thr-Thr-Lys-Pro-Asn-Pro	Thr-Thr-Lys-Pro-Asn-Pro	646
Thr-Thr-Lys-Pro-Asn-Lys	Thr-Thr-Lys-Pro-Asn-Lys	Thr-Thr-Lys-Pro-Asn-Lys	647
Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	648
Thr-Thr-Lys-Pro-Tyr-Arg	Thr-Thr-Lys-Pro-Tyr-Arg	Thr-Thr-Lys-Pro-Tyr-Arg	649
Thr-Thr-Lys-Pro-Tyr-Phe	Thr-Thr-Lys-Pro-Tyr-Phe	Thr-Thr-Lys-Pro-Tyr-Phe	650
Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	651
Thr-Thr-Lys-Pro-Tyr-His	Thr-Thr-Lys-Pro-Tyr-His	Thr-Thr-Lys-Pro-Tyr-His	652
Thr-Thr-Lys-Pro-Tyr-Pro	Thr-Thr-Lys-Pro-Tyr-Pro	Thr-Thr-Lys-Pro-Tyr-Pro	653
Thr-Thr-Lys-Pro-Tyr-Lys	Thr-Thr-Lys-Pro-Tyr-Lys	Thr-Thr-Lys-Pro-Tyr-Lys	654
Thr-Thr-Lys-Pro-Arg	Thr-Thr-Lys-Pro-Arg	Thr-Thr-Lys-Pro-Arg	655
Thr-Thr-Lys-Pro-Arg-Arg	Thr-Thr-Lys-Pro-Arg-Arg	Thr-Thr-Lys-Pro-Arg-Arg	656
Thr-Thr-Lys-Pro-Arg-Phe	Thr-Thr-Lys-Pro-Arg-Phe	Thr-Thr-Lys-Pro-Arg-Phe	657
Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	658
Thr-Thr-Lys-Pro-Arg-His	Thr-Thr-Lys-Pro-Arg-His	Thr-Thr-Lys-Pro-Arg-His	659
Thr-Thr-Lys-Pro-Arg-Pro	Thr-Thr-Lys-Pro-Arg-Pro	Thr-Thr-Lys-Pro-Arg-Pro	660
Thr-Thr-Lys-Pro-Arg-Lys	Thr-Thr-Lys-Pro-Arg-Lys	Thr-Thr-Lys-Pro-Arg-Lys	661
Ala-Thr-Lys-Pro-Arg	Ala-Thr-Lys-Pro-Arg	Ala-Thr-Lys-Pro-Arg	662
Ala-Thr-Lys-Pro-Phe	Ala-Thr-Lys-Pro-Phe	Ala-Thr-Lys-Pro-Phe	663
Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	664
Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	665
Ala-Thr-Lys-Pro-His	Ala-Thr-Lys-Pro-His	Ala-Thr-Lys-Pro-His	666
Ala-Thr-Lys-Pro-Lys	Ala-Thr-Lys-Pro-Lys	Ala-Thr-Lys-Pro-Lys	667
Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	668
Ala-Thr-Lys-Pro-Gly-Arg	Ala-Thr-Lys-Pro-Gly-Arg	Ala-Thr-Lys-Pro-Gly-Arg	669
Ala-Thr-Lys-Pro-Gly-Phe	Ala-Thr-Lys-Pro-Gly-Phe	Ala-Thr-Lys-Pro-Gly-Phe	670
Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	671
Ala-Thr-Lys-Pro-Gly-His	Ala-Thr-Lys-Pro-Gly-His	Ala-Thr-Lys-Pro-Gly-His	672
Ala-Thr-Lys-Pro-Gly-Pro	Ala-Thr-Lys-Pro-Gly-Pro	Ala-Thr-Lys-Pro-Gly-Pro	673
Ala-Thr-Lys-Pro-Gly-Lys	Ala-Thr-Lys-Pro-Gly-Lys	Ala-Thr-Lys-Pro-Gly-Lys	674
Ala-Thr-Lys-Pro-Asp	Ala-Thr-Lys-Pro-Asp	Ala-Thr-Lys-Pro-Asp	675
Ala-Thr-Lys-Pro-Asp-Arg	Ala-Thr-Lys-Pro-Asp-Arg	Ala-Thr-Lys-Pro-Asp-Arg	676
Ala-Thr-Lys-Pro-Asp-Phe	Ala-Thr-Lys-Pro-Asp-Phe	Ala-Thr-Lys-Pro-Asp-Phe	677
Ala-Thr-Lys-Pro-Asp-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr	678
Ala-Thr-Lys-Pro-Asp-His	Ala-Thr-Lys-Pro-Asp-His	Ala-Thr-Lys-Pro-Asp-His	679
Ala-Thr-Lys-Pro-Asp-Pro	Ala-Thr-Lys-Pro-Asp-Pro	Ala-Thr-Lys-Pro-Asp-Pro	680
Ala-Thr-Lys-Pro-Asp-Lys	Ala-Thr-Lys-Pro-Asp-Lys	Ala-Thr-Lys-Pro-Asp-Lys	681
Ala-Thr-Lys-Pro-Trp	Ala-Thr-Lys-Pro-Trp	Ala-Thr-Lys-Pro-Trp	682
Ala-Thr-Lys-Pro-Trp-Arg	Ala-Thr-Lys-Pro-Trp-Arg	Ala-Thr-Lys-Pro-Trp-Arg	683
Ala-Thr-Lys-Pro-Trp-Phe	Ala-Thr-Lys-Pro-Trp-Phe	Ala-Thr-Lys-Pro-Trp-Phe	684
Ala-Thr-Lys-Pro-Trp-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr	685
Ala-Thr-Lys-Pro-Trp-His	Ala-Thr-Lys-Pro-Trp-His	Ala-Thr-Lys-Pro-Trp-His	686
Ala-Thr-Lys-Pro-Trp-Pro	Ala-Thr-Lys-Pro-Trp-Pro	Ala-Thr-Lys-Pro-Trp-Pro	687

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Ala-Thr-Lys-Pro-Trp-Lys	Ala-Thr-Lys-Pro-Trp-Lys	Ala-Thr-Lys-Pro-Trp-Lys	688
Ala-Thr-Lys-Pro-Gln	Ala-Thr-Lys-Pro-Gln	Ala-Thr-Lys-Pro-Gln	689
Ala-Thr-Lys-Pro-Gln-Arg	Ala-Thr-Lys-Pro-Gln-Arg	Ala-Thr-Lys-Pro-Gln-Arg	690
Ala-Thr-Lys-Pro-Gln-Phe	Ala-Thr-Lys-Pro-Gln-Phe	Ala-Thr-Lys-Pro-Gln-Phe	691
Ala-Thr-Lys-Pro-Gln-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr	692
Ala-Thr-Lys-Pro-Gln-His	Ala-Thr-Lys-Pro-Gln-His	Ala-Thr-Lys-Pro-Gln-His	693
Ala-Thr-Lys-Pro-Gln-Pro	Ala-Thr-Lys-Pro-Gln-Pro	Ala-Thr-Lys-Pro-Gln-Pro	694
Ala-Thr-Lys-Pro-Gln-Lys	Ala-Thr-Lys-Pro-Gln-Lys	Ala-Thr-Lys-Pro-Gln-Lys	695
Ala-Thr-Lys-Pro-Asn	Ala-Thr-Lys-Pro-Asn	Ala-Thr-Lys-Pro-Asn	696
Ala-Thr-Lys-Pro-Asn-Arg	Ala-Thr-Lys-Pro-Asn-Arg	Ala-Thr-Lys-Pro-Asn-Arg	697
Ala-Thr-Lys-Pro-Asn-Phe	Ala-Thr-Lys-Pro-Asn-Phe	Ala-Thr-Lys-Pro-Asn-Phe	698
Ala-Thr-Lys-Pro-Asn-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr	699
Ala-Thr-Lys-Pro-Asn-His	Ala-Thr-Lys-Pro-Asn-His	Ala-Thr-Lys-Pro-Asn-His	700
Ala-Thr-Lys-Pro-Asn-Pro	Ala-Thr-Lys-Pro-Asn-Pro	Ala-Thr-Lys-Pro-Asn-Pro	701
Ala-Thr-Lys-Pro-Asn-Lys	Ala-Thr-Lys-Pro-Asn-Lys	Ala-Thr-Lys-Pro-Asn-Lys	702
Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	703
Ala-Thr-Lys-Pro-Tyr-Arg	Ala-Thr-Lys-Pro-Tyr-Arg	Ala-Thr-Lys-Pro-Tyr-Arg	704
Ala-Thr-Lys-Pro-Tyr-Phe	Ala-Thr-Lys-Pro-Tyr-Phe	Ala-Thr-Lys-Pro-Tyr-Phe	705
Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	706
Ala-Thr-Lys-Pro-Tyr-His	Ala-Thr-Lys-Pro-Tyr-His	Ala-Thr-Lys-Pro-Tyr-His	707
Ala-Thr-Lys-Pro-Tyr-Pro	Ala-Thr-Lys-Pro-Tyr-Pro	Ala-Thr-Lys-Pro-Tyr-Pro	708
Ala-Thr-Lys-Pro-Tyr-Lys	Ala-Thr-Lys-Pro-Tyr-Lys	Ala-Thr-Lys-Pro-Tyr-Lys	709
Ala-Thr-Lys-Pro-Arg	Ala-Thr-Lys-Pro-Arg	Ala-Thr-Lys-Pro-Arg	710
Ala-Thr-Lys-Pro-Arg-Arg	Ala-Thr-Lys-Pro-Arg-Arg	Ala-Thr-Lys-Pro-Arg-Arg	711
Ala-Thr-Lys-Pro-Arg-Phe	Ala-Thr-Lys-Pro-Arg-Phe	Ala-Thr-Lys-Pro-Arg-Phe	712
Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	713
Ala-Thr-Lys-Pro-Arg-His	Ala-Thr-Lys-Pro-Arg-His	Ala-Thr-Lys-Pro-Arg-His	714
Ala-Thr-Lys-Pro-Arg-Pro	Ala-Thr-Lys-Pro-Arg-Pro	Ala-Thr-Lys-Pro-Arg-Pro	715
Ala-Thr-Lys-Pro-Arg-Lys	Ala-Thr-Lys-Pro-Arg-Lys	Ala-Thr-Lys-Pro-Arg-Lys	716
His-Thr-Lys-Pro-Arg	His-Thr-Lys-Pro-Arg	His-Thr-Lys-Pro-Arg	717
His-Thr-Lys-Pro-Phe	His-Thr-Lys-Pro-Phe	His-Thr-Lys-Pro-Phe	718
His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	719
His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	720
His-Thr-Lys-Pro-His	His-Thr-Lys-Pro-His	His-Thr-Lys-Pro-His	721
His-Thr-Lys-Pro-Lys	His-Thr-Lys-Pro-Lys	His-Thr-Lys-Pro-Lys	722
His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	723
His-Thr-Lys-Pro-Gly-Arg	His-Thr-Lys-Pro-Gly-Arg	His-Thr-Lys-Pro-Gly-Arg	724
His-Thr-Lys-Pro-Gly-Phe	His-Thr-Lys-Pro-Gly-Phe	His-Thr-Lys-Pro-Gly-Phe	725
His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	726
His-Thr-Lys-Pro-Gly-His	His-Thr-Lys-Pro-Gly-His	His-Thr-Lys-Pro-Gly-His	727
His-Thr-Lys-Pro-Gly-Pro	His-Thr-Lys-Pro-Gly-Pro	His-Thr-Lys-Pro-Gly-Pro	728
His-Thr-Lys-Pro-Gly-Lys	His-Thr-Lys-Pro-Gly-Lys	His-Thr-Lys-Pro-Gly-Lys	729
His-Thr-Lys-Pro-Asp	His-Thr-Lys-Pro-Asp	His-Thr-Lys-Pro-Asp	730

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His-Thr-Lys-Pro-Asp-Arg	His-Thr-Lys-Pro-Asp-Arg	His-Thr-Lys-Pro-Asp-Arg	731
His-Thr-Lys-Pro-Asp-Phe	His-Thr-Lys-Pro-Asp-Phe	His-Thr-Lys-Pro-Asp-Phe	732
His-Thr-Lys-Pro-Asp-Tyr	His-Thr-Lys-Pro-Asp-Tyr	His-Thr-Lys-Pro-Asp-Tyr	733
His-Thr-Lys-Pro-Asp-His	His-Thr-Lys-Pro-Asp-His	His-Thr-Lys-Pro-Asp-His	734
His-Thr-Lys-Pro-Asp-Pro	His-Thr-Lys-Pro-Asp-Pro	His-Thr-Lys-Pro-Asp-Pro	735
His-Thr-Lys-Pro-Asp-Lys	His-Thr-Lys-Pro-Asp-Lys	His-Thr-Lys-Pro-Asp-Lys	736
His-Thr-Lys-Pro-Trp	His-Thr-Lys-Pro-Trp	His-Thr-Lys-Pro-Trp	737
His-Thr-Lys-Pro-Trp-Arg	His-Thr-Lys-Pro-Trp-Arg	His-Thr-Lys-Pro-Trp-Arg	738
His-Thr-Lys-Pro-Trp-Phe	His-Thr-Lys-Pro-Trp-Phe	His-Thr-Lys-Pro-Trp-Phe	739
His-Thr-Lys-Pro-Trp-Tyr	His-Thr-Lys-Pro-Trp-Tyr	His-Thr-Lys-Pro-Trp-Tyr	740
His-Thr-Lys-Pro-Trp-His	His-Thr-Lys-Pro-Trp-His	His-Thr-Lys-Pro-Trp-His	741
His-Thr-Lys-Pro-Trp-Pro	His-Thr-Lys-Pro-Trp-Pro	His-Thr-Lys-Pro-Trp-Pro	742
His-Thr-Lys-Pro-Trp-Lys	His-Thr-Lys-Pro-Trp-Lys	His-Thr-Lys-Pro-Trp-Lys	743
His-Thr-Lys-Pro-Gln	His-Thr-Lys-Pro-Gln	His-Thr-Lys-Pro-Gln	744
His-Thr-Lys-Pro-Gln-Arg	His-Thr-Lys-Pro-Gln-Arg	His-Thr-Lys-Pro-Gln-Arg	745
His-Thr-Lys-Pro-Gln-Phe	His-Thr-Lys-Pro-Gln-Phe	His-Thr-Lys-Pro-Gln-Phe	746
His-Thr-Lys-Pro-Gln-Tyr	His-Thr-Lys-Pro-Gln-Tyr	His-Thr-Lys-Pro-Gln-Tyr	747
His-Thr-Lys-Pro-Gln-His	His-Thr-Lys-Pro-Gln-His	His-Thr-Lys-Pro-Gln-His	748
His-Thr-Lys-Pro-Gln-Pro	His-Thr-Lys-Pro-Gln-Pro	His-Thr-Lys-Pro-Gln-Pro	749
His-Thr-Lys-Pro-Gln-Lys	His-Thr-Lys-Pro-Gln-Lys	His-Thr-Lys-Pro-Gln-Lys	750
His-Thr-Lys-Pro-Asn	His-Thr-Lys-Pro-Asn	His-Thr-Lys-Pro-Asn	751
His-Thr-Lys-Pro-Asn-Arg	His-Thr-Lys-Pro-Asn-Arg	His-Thr-Lys-Pro-Asn-Arg	752
His-Thr-Lys-Pro-Asn-Phe	His-Thr-Lys-Pro-Asn-Phe	His-Thr-Lys-Pro-Asn-Phe	753
His-Thr-Lys-Pro-Asn-Tyr	His-Thr-Lys-Pro-Asn-Tyr	His-Thr-Lys-Pro-Asn-Tyr	754
His-Thr-Lys-Pro-Asn-His	His-Thr-Lys-Pro-Asn-His	His-Thr-Lys-Pro-Asn-His	755
His-Thr-Lys-Pro-Asn-Pro	His-Thr-Lys-Pro-Asn-Pro	His-Thr-Lys-Pro-Asn-Pro	756
His-Thr-Lys-Pro-Asn-Lys	His-Thr-Lys-Pro-Asn-Lys	His-Thr-Lys-Pro-Asn-Lys	757
His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	758
His-Thr-Lys-Pro-Tyr-Arg	His-Thr-Lys-Pro-Tyr-Arg	His-Thr-Lys-Pro-Tyr-Arg	759
His-Thr-Lys-Pro-Tyr-Phe	His-Thr-Lys-Pro-Tyr-Phe	His-Thr-Lys-Pro-Tyr-Phe	760
His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	761
His-Thr-Lys-Pro-Tyr-His	His-Thr-Lys-Pro-Tyr-His	His-Thr-Lys-Pro-Tyr-His	762
His-Thr-Lys-Pro-Tyr-Pro	His-Thr-Lys-Pro-Tyr-Pro	His-Thr-Lys-Pro-Tyr-Pro	763
His-Thr-Lys-Pro-Tyr-Lys	His-Thr-Lys-Pro-Tyr-Lys	His-Thr-Lys-Pro-Tyr-Lys	764
His-Thr-Lys-Pro-Arg	His-Thr-Lys-Pro-Arg	His-Thr-Lys-Pro-Arg	765
His-Thr-Lys-Pro-Arg-Arg	His-Thr-Lys-Pro-Arg-Arg	His-Thr-Lys-Pro-Arg-Arg	766
His-Thr-Lys-Pro-Arg-Phe	His-Thr-Lys-Pro-Arg-Phe	His-Thr-Lys-Pro-Arg-Phe	767
His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	768
His-Thr-Lys-Pro-Arg-His	His-Thr-Lys-Pro-Arg-His	His-Thr-Lys-Pro-Arg-His	769
His-Thr-Lys-Pro-Arg-Pro	His-Thr-Lys-Pro-Arg-Pro	His-Thr-Lys-Pro-Arg-Pro	770
His-Thr-Lys-Pro-Arg-Lys	His-Thr-Lys-Pro-Arg-Lys	His-Thr-Lys-Pro-Arg-Lys	771
Lys-Thr-Lys-Pro-Arg	Lys-Thr-Lys-Pro-Arg	Lys-Thr-Lys-Pro-Arg	772
Lys-Thr-Lys-Pro-Phe	Lys-Thr-Lys-Pro-Phe	Lys-Thr-Lys-Pro-Phe	773

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Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	774
Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	775
Lys-Thr-Lys-Pro-His	Lys-Thr-Lys-Pro-His	Lys-Thr-Lys-Pro-His	776
Lys-Thr-Lys-Pro-Lys	Lys-Thr-Lys-Pro-Lys	Lys-Thr-Lys-Pro-Lys	777
Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	778
Lys-Thr-Lys-Pro-Gly-Arg	Lys-Thr-Lys-Pro-Gly-Arg	Lys-Thr-Lys-Pro-Gly-Arg	779
Lys-Thr-Lys-Pro-Gly-Phe	Lys-Thr-Lys-Pro-Gly-Phe	Lys-Thr-Lys-Pro-Gly-Phe	780
Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	781
Lys-Thr-Lys-Pro-Gly-His	Lys-Thr-Lys-Pro-Gly-His	Lys-Thr-Lys-Pro-Gly-His	782
Lys-Thr-Lys-Pro-Gly-Pro	Lys-Thr-Lys-Pro-Gly-Pro	Lys-Thr-Lys-Pro-Gly-Pro	783
Lys-Thr-Lys-Pro-Gly-Lys	Lys-Thr-Lys-Pro-Gly-Lys	Lys-Thr-Lys-Pro-Gly-Lys	784
Lys-Thr-Lys-Pro-Asp	Lys-Thr-Lys-Pro-Asp	Lys-Thr-Lys-Pro-Asp	785
Lys-Thr-Lys-Pro-Asp-Arg	Lys-Thr-Lys-Pro-Asp-Arg	Lys-Thr-Lys-Pro-Asp-Arg	786
Lys-Thr-Lys-Pro-Asp-Phe	Lys-Thr-Lys-Pro-Asp-Phe	Lys-Thr-Lys-Pro-Asp-Phe	787
Lys-Thr-Lys-Pro-Asp-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr	788
Lys-Thr-Lys-Pro-Asp-His	Lys-Thr-Lys-Pro-Asp-His	Lys-Thr-Lys-Pro-Asp-His	789
Lys-Thr-Lys-Pro-Asp-Pro	Lys-Thr-Lys-Pro-Asp-Pro	Lys-Thr-Lys-Pro-Asp-Pro	790
Lys-Thr-Lys-Pro-Asp-Lys	Lys-Thr-Lys-Pro-Asp-Lys	Lys-Thr-Lys-Pro-Asp-Lys	791
Lys-Thr-Lys-Pro-Trp	Lys-Thr-Lys-Pro-Trp	Lys-Thr-Lys-Pro-Trp	792
Lys-Thr-Lys-Pro-Trp-Arg	Lys-Thr-Lys-Pro-Trp-Arg	Lys-Thr-Lys-Pro-Trp-Arg	793
Lys-Thr-Lys-Pro-Trp-Phe	Lys-Thr-Lys-Pro-Trp-Phe	Lys-Thr-Lys-Pro-Trp-Phe	794
Lys-Thr-Lys-Pro-Trp-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr	795
Lys-Thr-Lys-Pro-Trp-His	Lys-Thr-Lys-Pro-Trp-His	Lys-Thr-Lys-Pro-Trp-His	796
Lys-Thr-Lys-Pro-Trp-Pro	Lys-Thr-Lys-Pro-Trp-Pro	Lys-Thr-Lys-Pro-Trp-Pro	797
Lys-Thr-Lys-Pro-Trp-Lys	Lys-Thr-Lys-Pro-Trp-Lys	Lys-Thr-Lys-Pro-Trp-Lys	798
Lys-Thr-Lys-Pro-Gln	Lys-Thr-Lys-Pro-Gln	Lys-Thr-Lys-Pro-Gln	799
Lys-Thr-Lys-Pro-Gln-Arg	Lys-Thr-Lys-Pro-Gln-Arg	Lys-Thr-Lys-Pro-Gln-Arg	800
Lys-Thr-Lys-Pro-Gln-Phe	Lys-Thr-Lys-Pro-Gln-Phe	Lys-Thr-Lys-Pro-Gln-Phe	801
Lys-Thr-Lys-Pro-Gln-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr	802
Lys-Thr-Lys-Pro-Gln-His	Lys-Thr-Lys-Pro-Gln-His	Lys-Thr-Lys-Pro-Gln-His	803
Lys-Thr-Lys-Pro-Gln-Pro	Lys-Thr-Lys-Pro-Gln-Pro	Lys-Thr-Lys-Pro-Gln-Pro	804
Lys-Thr-Lys-Pro-Gln-Lys	Lys-Thr-Lys-Pro-Gln-Lys	Lys-Thr-Lys-Pro-Gln-Lys	805
Lys-Thr-Lys-Pro-Asn	Lys-Thr-Lys-Pro-Asn	Lys-Thr-Lys-Pro-Asn	806
Lys-Thr-Lys-Pro-Asn-Arg	Lys-Thr-Lys-Pro-Asn-Arg	Lys-Thr-Lys-Pro-Asn-Arg	807
Lys-Thr-Lys-Pro-Asn-Phe	Lys-Thr-Lys-Pro-Asn-Phe	Lys-Thr-Lys-Pro-Asn-Phe	808
Lys-Thr-Lys-Pro-Asn-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr	809
Lys-Thr-Lys-Pro-Asn-His	Lys-Thr-Lys-Pro-Asn-His	Lys-Thr-Lys-Pro-Asn-His	810
Lys-Thr-Lys-Pro-Asn-Pro	Lys-Thr-Lys-Pro-Asn-Pro	Lys-Thr-Lys-Pro-Asn-Pro	811
Lys-Thr-Lys-Pro-Asn-Lys	Lys-Thr-Lys-Pro-Asn-Lys	Lys-Thr-Lys-Pro-Asn-Lys	812
Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	813
Lys-Thr-Lys-Pro-Tyr-Arg	Lys-Thr-Lys-Pro-Tyr-Arg	Lys-Thr-Lys-Pro-Tyr-Arg	814
Lys-Thr-Lys-Pro-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Phe	815
Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	816

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Lys-Thr-Lys-Pro-Tyr-His	Lys-Thr-Lys-Pro-Tyr-His	Lys-Thr-Lys-Pro-Tyr-His	817
Lys-Thr-Lys-Pro-Tyr-Pro	Lys-Thr-Lys-Pro-Tyr-Pro	Lys-Thr-Lys-Pro-Tyr-Pro	818
Lys-Thr-Lys-Pro-Tyr-Lys	Lys-Thr-Lys-Pro-Tyr-Lys	Lys-Thr-Lys-Pro-Tyr-Lys	819
Lys-Thr-Lys-Pro-Arg	Lys-Thr-Lys-Pro-Arg	Lys-Thr-Lys-Pro-Arg	820
Lys-Thr-Lys-Pro-Arg-Arg	Lys-Thr-Lys-Pro-Arg-Arg	Lys-Thr-Lys-Pro-Arg-Arg	821
Lys-Thr-Lys-Pro-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Phe	822
Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	823
Lys-Thr-Lys-Pro-Arg-His	Lys-Thr-Lys-Pro-Arg-His	Lys-Thr-Lys-Pro-Arg-His	824
Lys-Thr-Lys-Pro-Arg-Pro	Lys-Thr-Lys-Pro-Arg-Pro	Lys-Thr-Lys-Pro-Arg-Pro	825
Lys-Thr-Lys-Pro-Arg-Lys	Lys-Thr-Lys-Pro-Arg-Lys	Lys-Thr-Lys-Pro-Arg-Lys	826
Gly-Thr-Lys-Pro-Arg	Gly-Thr-Lys-Pro-Arg	Gly-Thr-Lys-Pro-Arg	827
Gly-Thr-Lys-Pro-Phe	Gly-Thr-Lys-Pro-Phe	Gly-Thr-Lys-Pro-Phe	828
Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	829
Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	830
Gly-Thr-Lys-Pro-His	Gly-Thr-Lys-Pro-His	Gly-Thr-Lys-Pro-His	831
Gly-Thr-Lys-Pro-Lys	Gly-Thr-Lys-Pro-Lys	Gly-Thr-Lys-Pro-Lys	832
Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	833
Gly-Thr-Lys-Pro-Gly-Arg	Gly-Thr-Lys-Pro-Gly-Arg	Gly-Thr-Lys-Pro-Gly-Arg	834
Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	835
Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	836
Gly-Thr-Lys-Pro-Gly-His	Gly-Thr-Lys-Pro-Gly-His	Gly-Thr-Lys-Pro-Gly-His	837
Gly-Thr-Lys-Pro-Gly-Pro	Gly-Thr-Lys-Pro-Gly-Pro	Gly-Thr-Lys-Pro-Gly-Pro	838
Gly-Thr-Lys-Pro-Gly-Lys	Gly-Thr-Lys-Pro-Gly-Lys	Gly-Thr-Lys-Pro-Gly-Lys	839
Gly-Thr-Lys-Pro-Asp	Gly-Thr-Lys-Pro-Asp	Gly-Thr-Lys-Pro-Asp	840
Gly-Thr-Lys-Pro-Asp-Arg	Gly-Thr-Lys-Pro-Asp-Arg	Gly-Thr-Lys-Pro-Asp-Arg	841
Gly-Thr-Lys-Pro-Asp-Phe	Gly-Thr-Lys-Pro-Asp-Phe	Gly-Thr-Lys-Pro-Asp-Phe	842
Gly-Thr-Lys-Pro-Asp-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr	843
Gly-Thr-Lys-Pro-Asp-His	Gly-Thr-Lys-Pro-Asp-His	Gly-Thr-Lys-Pro-Asp-His	844
Gly-Thr-Lys-Pro-Asp-Pro	Gly-Thr-Lys-Pro-Asp-Pro	Gly-Thr-Lys-Pro-Asp-Pro	845
Gly-Thr-Lys-Pro-Asp-Lys	Gly-Thr-Lys-Pro-Asp-Lys	Gly-Thr-Lys-Pro-Asp-Lys	846
Gly-Thr-Lys-Pro-Trp	Gly-Thr-Lys-Pro-Trp	Gly-Thr-Lys-Pro-Trp	847
Gly-Thr-Lys-Pro-Trp-Arg	Gly-Thr-Lys-Pro-Trp-Arg	Gly-Thr-Lys-Pro-Trp-Arg	848
Gly-Thr-Lys-Pro-Trp-Phe	Gly-Thr-Lys-Pro-Trp-Phe	Gly-Thr-Lys-Pro-Trp-Phe	849
Gly-Thr-Lys-Pro-Trp-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr	850
Gly-Thr-Lys-Pro-Trp-His	Gly-Thr-Lys-Pro-Trp-His	Gly-Thr-Lys-Pro-Trp-His	851
Gly-Thr-Lys-Pro-Trp-Pro	Gly-Thr-Lys-Pro-Trp-Pro	Gly-Thr-Lys-Pro-Trp-Pro	852
Gly-Thr-Lys-Pro-Trp-Lys	Gly-Thr-Lys-Pro-Trp-Lys	Gly-Thr-Lys-Pro-Trp-Lys	853
Gly-Thr-Lys-Pro-Gln	Gly-Thr-Lys-Pro-Gln	Gly-Thr-Lys-Pro-Gln	854
Gly-Thr-Lys-Pro-Gln-Arg	Gly-Thr-Lys-Pro-Gln-Arg	Gly-Thr-Lys-Pro-Gln-Arg	855
Gly-Thr-Lys-Pro-Gln-Phe	Gly-Thr-Lys-Pro-Gln-Phe	Gly-Thr-Lys-Pro-Gln-Phe	856
Gly-Thr-Lys-Pro-Gln-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr	857
Gly-Thr-Lys-Pro-Gln-His	Gly-Thr-Lys-Pro-Gln-His	Gly-Thr-Lys-Pro-Gln-His	858
Gly-Thr-Lys-Pro-Gln-Pro	Gly-Thr-Lys-Pro-Gln-Pro	Gly-Thr-Lys-Pro-Gln-Pro	859

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Gly-Thr-Lys-Pro-Gln-Lys	Gly-Thr-Lys-Pro-Gln-Lys	Gly-Thr-Lys-Pro-Gln-Lys	860
Gly-Thr-Lys-Pro-Asn	Gly-Thr-Lys-Pro-Asn	Gly-Thr-Lys-Pro-Asn	861
Gly-Thr-Lys-Pro-Asn-Arg	Gly-Thr-Lys-Pro-Asn-Arg	Gly-Thr-Lys-Pro-Asn-Arg	862
Gly-Thr-Lys-Pro-Asn-Phe	Gly-Thr-Lys-Pro-Asn-Phe	Gly-Thr-Lys-Pro-Asn-Phe	863
Gly-Thr-Lys-Pro-Asn-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr	864
Gly-Thr-Lys-Pro-Asn-His	Gly-Thr-Lys-Pro-Asn-His	Gly-Thr-Lys-Pro-Asn-His	865
Gly-Thr-Lys-Pro-Asn-Pro	Gly-Thr-Lys-Pro-Asn-Pro	Gly-Thr-Lys-Pro-Asn-Pro	866
Gly-Thr-Lys-Pro-Asn-Lys	Gly-Thr-Lys-Pro-Asn-Lys	Gly-Thr-Lys-Pro-Asn-Lys	867
Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	868
Gly-Thr-Lys-Pro-Tyr-Arg	Gly-Thr-Lys-Pro-Tyr-Arg	Gly-Thr-Lys-Pro-Tyr-Arg	869
Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	870
Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	871
Gly-Thr-Lys-Pro-Tyr-His	Gly-Thr-Lys-Pro-Tyr-His	Gly-Thr-Lys-Pro-Tyr-His	872
Gly-Thr-Lys-Pro-Tyr-Pro	Gly-Thr-Lys-Pro-Tyr-Pro	Gly-Thr-Lys-Pro-Tyr-Pro	873
Gly-Thr-Lys-Pro-Tyr-Lys	Gly-Thr-Lys-Pro-Tyr-Lys	Gly-Thr-Lys-Pro-Tyr-Lys	874
Gly-Thr-Lys-Pro-Arg	Gly-Thr-Lys-Pro-Arg	Gly-Thr-Lys-Pro-Arg	875
Gly-Thr-Lys-Pro-Arg-Arg	Gly-Thr-Lys-Pro-Arg-Arg	Gly-Thr-Lys-Pro-Arg-Arg	876
Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	877
Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	878
Gly-Thr-Lys-Pro-Arg-His	Gly-Thr-Lys-Pro-Arg-His	Gly-Thr-Lys-Pro-Arg-His	879
Gly-Thr-Lys-Pro-Arg-Pro	Gly-Thr-Lys-Pro-Arg-Pro	Gly-Thr-Lys-Pro-Arg-Pro	880
Gly-Thr-Lys-Pro-Arg-Lys	Gly-Thr-Lys-Pro-Arg-Lys	Gly-Thr-Lys-Pro-Arg-Lys	881
Thr-Lys-Pro-Arg-Val	Thr-Lys-Pro-Arg-Val	Thr-Lys-Pro-Arg-Val	882
Thr-Lys-Pro-Phe-Val	Thr-Lys-Pro-Phe-Val	Thr-Lys-Pro-Phe-Val	883
Thr-Lys-Pro-Tyr-Val	Thr-Lys-Pro-Tyr-Val	Thr-Lys-Pro-Tyr-Val	884
Thr-Lys-Pro-Gly-Val	Thr-Lys-Pro-Gly-Val	Thr-Lys-Pro-Gly-Val	885
Thr-Lys-Pro-His-Val	Thr-Lys-Pro-His-Val	Thr-Lys-Pro-His-Val	886
Thr-Lys-Pro-Lys-Val	Thr-Lys-Pro-Lys-Val	Thr-Lys-Pro-Lys-Val	887
Thr-Lys-Pro-Gly-Val	Thr-Lys-Pro-Gly-Val	Thr-Lys-Pro-Gly-Val	888
Thr-Lys-Pro-Gly-Arg-Val	Thr-Lys-Pro-Gly-Arg-Val	Thr-Lys-Pro-Gly-Arg-Val	889
Thr-Lys-Pro-Gly-Phe-Val	Thr-Lys-Pro-Gly-Phe-Val	Thr-Lys-Pro-Gly-Phe-Val	890
Thr-Lys-Pro-Gly-Tyr-Val	Thr-Lys-Pro-Gly-Tyr-Val	Thr-Lys-Pro-Gly-Tyr-Val	891
Thr-Lys-Pro-Gly-His-Val	Thr-Lys-Pro-Gly-His-Val	Thr-Lys-Pro-Gly-His-Val	892
Thr-Lys-Pro-Gly-Pro-Val	Thr-Lys-Pro-Gly-Pro-Val	Thr-Lys-Pro-Gly-Pro-Val	893
Thr-Lys-Pro-Gly-Lys-Val	Thr-Lys-Pro-Gly-Lys-Val	Thr-Lys-Pro-Gly-Lys-Val	894
Thr-Lys-Pro-Asp-Val	Thr-Lys-Pro-Asp-Val	Thr-Lys-Pro-Asp-Val	895
Thr-Lys-Pro-Asp-Arg-Val	Thr-Lys-Pro-Asp-Arg-Val	Thr-Lys-Pro-Asp-Arg-Val	896
Thr-Lys-Pro-Asp-Phe-Val	Thr-Lys-Pro-Asp-Phe-Val	Thr-Lys-Pro-Asp-Phe-Val	897
Thr-Lys-Pro-Asp-Tyr-Val	Thr-Lys-Pro-Asp-Tyr-Val	Thr-Lys-Pro-Asp-Tyr-Val	898
Thr-Lys-Pro-Asp-His-Val	Thr-Lys-Pro-Asp-His-Val	Thr-Lys-Pro-Asp-His-Val	899
Thr-Lys-Pro-Asp-Pro-Val	Thr-Lys-Pro-Asp-Pro-Val	Thr-Lys-Pro-Asp-Pro-Val	900
Thr-Lys-Pro-Asp-Lys-Val	Thr-Lys-Pro-Asp-Lys-Val	Thr-Lys-Pro-Asp-Lys-Val	901
Thr-Lys-Pro-Trp-Val	Thr-Lys-Pro-Trp-Val	Thr-Lys-Pro-Trp-Val	902

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Thr-Lys-Pro-Trp-Arg-Val	Thr-Lys-Pro-Trp-Arg-Val	Thr-Lys-Pro-Trp-Arg-Val	903
Thr-Lys-Pro-Trp-Phe-Val	Thr-Lys-Pro-Trp-Phe-Val	Thr-Lys-Pro-Trp-Phe-Val	904
Thr-Lys-Pro-Trp-Tyr-Val	Thr-Lys-Pro-Trp-Tyr-Val	Thr-Lys-Pro-Trp-Tyr-Val	905
Thr-Lys-Pro-Trp-His-Val	Thr-Lys-Pro-Trp-His-Val	Thr-Lys-Pro-Trp-His-Val	906
Thr-Lys-Pro-Trp-Pro-Val	Thr-Lys-Pro-Trp-Pro-Val	Thr-Lys-Pro-Trp-Pro-Val	907
Thr-Lys-Pro-Trp-Lys-Val	Thr-Lys-Pro-Trp-Lys-Val	Thr-Lys-Pro-Trp-Lys-Val	908
Thr-Lys-Pro-Gln-Val	Thr-Lys-Pro-Gln-Val	Thr-Lys-Pro-Gln-Val	909
Thr-Lys-Pro-Gln-Arg-Val	Thr-Lys-Pro-Gln-Arg-Val	Thr-Lys-Pro-Gln-Arg-Val	910
Thr-Lys-Pro-Gln-Phe-Val	Thr-Lys-Pro-Gln-Phe-Val	Thr-Lys-Pro-Gln-Phe-Val	911
Thr-Lys-Pro-Gln-Tyr-Val	Thr-Lys-Pro-Gln-Tyr-Val	Thr-Lys-Pro-Gln-Tyr-Val	912
Thr-Lys-Pro-Gln-His-Val	Thr-Lys-Pro-Gln-His-Val	Thr-Lys-Pro-Gln-His-Val	913
Thr-Lys-Pro-Gln-Pro-Val	Thr-Lys-Pro-Gln-Pro-Val	Thr-Lys-Pro-Gln-Pro-Val	914
Thr-Lys-Pro-Gln-Lys-Val	Thr-Lys-Pro-Gln-Lys-Val	Thr-Lys-Pro-Gln-Lys-Val	915
Thr-Lys-Pro-Asn-Val	Thr-Lys-Pro-Asn-Val	Thr-Lys-Pro-Asn-Val	916
Thr-Lys-Pro-Asn-Arg-Val	Thr-Lys-Pro-Asn-Arg-Val	Thr-Lys-Pro-Asn-Arg-Val	917
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Thr-Lys-Pro-Asn-Pro-Val	Thr-Lys-Pro-Asn-Pro-Val	Thr-Lys-Pro-Asn-Pro-Val	921
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Thr-Lys-Pro-Tyr-Val	Thr-Lys-Pro-Tyr-Val	Thr-Lys-Pro-Tyr-Val	923
Thr-Lys-Pro-Tyr-Arg-Val	Thr-Lys-Pro-Tyr-Arg-Val	Thr-Lys-Pro-Tyr-Arg-Val	924
Thr-Lys-Pro-Tyr-Phe-Val	Thr-Lys-Pro-Tyr-Phe-Val	Thr-Lys-Pro-Tyr-Phe-Val	925
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Thr-Lys-Pro-Tyr-His-Val	Thr-Lys-Pro-Tyr-His-Val	Thr-Lys-Pro-Tyr-His-Val	927
Thr-Lys-Pro-Tyr-Pro-Val	Thr-Lys-Pro-Tyr-Pro-Val	Thr-Lys-Pro-Tyr-Pro-Val	928
Thr-Lys-Pro-Tyr-Lys-Val	Thr-Lys-Pro-Tyr-Lys-Val	Thr-Lys-Pro-Tyr-Lys-Val	929
Thr-Lys-Pro-Arg-Val	Thr-Lys-Pro-Arg-Val	Thr-Lys-Pro-Arg-Val	930
Thr-Lys-Pro-Arg-Arg-Val	Thr-Lys-Pro-Arg-Arg-Val	Thr-Lys-Pro-Arg-Arg-Val	931
Thr-Lys-Pro-Arg-Phe-Val	Thr-Lys-Pro-Arg-Phe-Val	Thr-Lys-Pro-Arg-Phe-Val	932
Thr-Lys-Pro-Arg-Tyr-Val	Thr-Lys-Pro-Arg-Tyr-Val	Thr-Lys-Pro-Arg-Tyr-Val	933
Thr-Lys-Pro-Arg-His-Val	Thr-Lys-Pro-Arg-His-Val	Thr-Lys-Pro-Arg-His-Val	934
Thr-Lys-Pro-Arg-Pro-Val	Thr-Lys-Pro-Arg-Pro-Val	Thr-Lys-Pro-Arg-Pro-Val	935
Thr-Lys-Pro-Arg-Lys-Val	Thr-Lys-Pro-Arg-Lys-Val	Thr-Lys-Pro-Arg-Lys-Val	936
Met-Thr-Lys-Pro-Val	Met-Thr-Lys-Pro-Val	Met-Thr-Lys-Pro-Val	937
Met-Thr-Lys-Pro-Arg-Val	Met-Thr-Lys-Pro-Arg-Val	Met-Thr-Lys-Pro-Arg-Val	938
Met-Thr-Lys-Pro-Phe-Val	Met-Thr-Lys-Pro-Phe-Val	Met-Thr-Lys-Pro-Phe-Val	939
Met-Thr-Lys-Pro-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Val	940
Met-Thr-Lys-Pro-His-Val	Met-Thr-Lys-Pro-His-Val	Met-Thr-Lys-Pro-His-Val	941
Met-Thr-Lys-Pro-Lys-Val	Met-Thr-Lys-Pro-Lys-Val	Met-Thr-Lys-Pro-Lys-Val	942
Met-Thr-Lys-Pro-Gly-Val	Met-Thr-Lys-Pro-Gly-Val	Met-Thr-Lys-Pro-Gly-Val	943
Met-Thr-Lys-Pro-Gly-Arg-Val	Met-Thr-Lys-Pro-Gly-Arg-Val	Met-Thr-Lys-Pro-Gly-Arg-Val	944
Met-Thr-Lys-Pro-Gly-Phe-Val	Met-Thr-Lys-Pro-Gly-Phe-Val	Met-Thr-Lys-Pro-Gly-Phe-Val	945

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Met-Thr-Lys-Pro-Gly-Tyr-Val	Met-Thr-Lys-Pro-Gly-Tyr-Val	Met-Thr-Lys-Pro-Gly-Tyr-Val	946
Met-Thr-Lys-Pro-Gly-His-Val	Met-Thr-Lys-Pro-Gly-His-Val	Met-Thr-Lys-Pro-Gly-His-Val	947
Met-Thr-Lys-Pro-Gly-Pro-Val	Met-Thr-Lys-Pro-Gly-Pro-Val	Met-Thr-Lys-Pro-Gly-Pro-Val	948
Met-Thr-Lys-Pro-Gly-Lys-Val	Met-Thr-Lys-Pro-Gly-Lys-Val	Met-Thr-Lys-Pro-Gly-Lys-Val	949
Met-Thr-Lys-Pro-Asp-Val	Met-Thr-Lys-Pro-Asp-Val	Met-Thr-Lys-Pro-Asp-Val	950
Met-Thr-Lys-Pro-Asp-Arg-Val	Met-Thr-Lys-Pro-Asp-Arg-Val	Met-Thr-Lys-Pro-Asp-Arg-Val	951
Met-Thr-Lys-Pro-Asp-Phe-Val	Met-Thr-Lys-Pro-Asp-Phe-Val	Met-Thr-Lys-Pro-Asp-Phe-Val	952
Met-Thr-Lys-Pro-Asp-Tyr-Val	Met-Thr-Lys-Pro-Asp-Tyr-Val	Met-Thr-Lys-Pro-Asp-Tyr-Val	953
Met-Thr-Lys-Pro-Asp-His-Val	Met-Thr-Lys-Pro-Asp-His-Val	Met-Thr-Lys-Pro-Asp-His-Val	954
Met-Thr-Lys-Pro-Asp-Pro-Val	Met-Thr-Lys-Pro-Asp-Pro-Val	Met-Thr-Lys-Pro-Asp-Pro-Val	955
Met-Thr-Lys-Pro-Asp-Lys-Val	Met-Thr-Lys-Pro-Asp-Lys-Val	Met-Thr-Lys-Pro-Asp-Lys-Val	956
Met-Thr-Lys-Pro-Trp-Val	Met-Thr-Lys-Pro-Trp-Val	Met-Thr-Lys-Pro-Trp-Val	957
Met-Thr-Lys-Pro-Trp-Arg-Val	Met-Thr-Lys-Pro-Trp-Arg-Val	Met-Thr-Lys-Pro-Trp-Arg-Val	958
Met-Thr-Lys-Pro-Trp-Phe-Val	Met-Thr-Lys-Pro-Trp-Phe-Val	Met-Thr-Lys-Pro-Trp-Phe-Val	959
Met-Thr-Lys-Pro-Trp-Tyr-Val	Met-Thr-Lys-Pro-Trp-Tyr-Val	Met-Thr-Lys-Pro-Trp-Tyr-Val	960
Met-Thr-Lys-Pro-Trp-His-Val	Met-Thr-Lys-Pro-Trp-His-Val	Met-Thr-Lys-Pro-Trp-His-Val	961
Met-Thr-Lys-Pro-Trp-Pro-Val	Met-Thr-Lys-Pro-Trp-Pro-Val	Met-Thr-Lys-Pro-Trp-Pro-Val	962
Met-Thr-Lys-Pro-Trp-Lys-Val	Met-Thr-Lys-Pro-Trp-Lys-Val	Met-Thr-Lys-Pro-Trp-Lys-Val	963
Met-Thr-Lys-Pro-Gln-Val	Met-Thr-Lys-Pro-Gln-Val	Met-Thr-Lys-Pro-Gln-Val	964
Met-Thr-Lys-Pro-Gln-Arg-Val	Met-Thr-Lys-Pro-Gln-Arg-Val	Met-Thr-Lys-Pro-Gln-Arg-Val	965
Met-Thr-Lys-Pro-Gln-Phe-Val	Met-Thr-Lys-Pro-Gln-Phe-Val	Met-Thr-Lys-Pro-Gln-Phe-Val	966
Met-Thr-Lys-Pro-Gln-Tyr-Val	Met-Thr-Lys-Pro-Gln-Tyr-Val	Met-Thr-Lys-Pro-Gln-Tyr-Val	967
Met-Thr-Lys-Pro-Gln-His-Val	Met-Thr-Lys-Pro-Gln-His-Val	Met-Thr-Lys-Pro-Gln-His-Val	968
Met-Thr-Lys-Pro-Gln-Pro-Val	Met-Thr-Lys-Pro-Gln-Pro-Val	Met-Thr-Lys-Pro-Gln-Pro-Val	969
Met-Thr-Lys-Pro-Gln-Lys-Val	Met-Thr-Lys-Pro-Gln-Lys-Val	Met-Thr-Lys-Pro-Gln-Lys-Val	970
Met-Thr-Lys-Pro-Asn-Val	Met-Thr-Lys-Pro-Asn-Val	Met-Thr-Lys-Pro-Asn-Val	971
Met-Thr-Lys-Pro-Asn-Arg-Val	Met-Thr-Lys-Pro-Asn-Arg-Val	Met-Thr-Lys-Pro-Asn-Arg-Val	972
Met-Thr-Lys-Pro-Asn-Phe-Val	Met-Thr-Lys-Pro-Asn-Phe-Val	Met-Thr-Lys-Pro-Asn-Phe-Val	973
Met-Thr-Lys-Pro-Asn-Tyr-Val	Met-Thr-Lys-Pro-Asn-Tyr-Val	Met-Thr-Lys-Pro-Asn-Tyr-Val	974
Met-Thr-Lys-Pro-Asn-His-Val	Met-Thr-Lys-Pro-Asn-His-Val	Met-Thr-Lys-Pro-Asn-His-Val	975
Met-Thr-Lys-Pro-Asn-Pro-Val	Met-Thr-Lys-Pro-Asn-Pro-Val	Met-Thr-Lys-Pro-Asn-Pro-Val	976
Met-Thr-Lys-Pro-Asn-Lys-Val	Met-Thr-Lys-Pro-Asn-Lys-Val	Met-Thr-Lys-Pro-Asn-Lys-Val	977
Met-Thr-Lys-Pro-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Val	978
Met-Thr-Lys-Pro-Tyr-Arg-Val	Met-Thr-Lys-Pro-Tyr-Arg-Val	Met-Thr-Lys-Pro-Tyr-Arg-Val	979
Met-Thr-Lys-Pro-Tyr-Phe-Val	Met-Thr-Lys-Pro-Tyr-Phe-Val	Met-Thr-Lys-Pro-Tyr-Phe-Val	980
Met-Thr-Lys-Pro-Tyr-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Tyr-Val	Met-Thr-Lys-Pro-Tyr-Tyr-Val	981
Met-Thr-Lys-Pro-Tyr-His-Val	Met-Thr-Lys-Pro-Tyr-His-Val	Met-Thr-Lys-Pro-Tyr-His-Val	982
Met-Thr-Lys-Pro-Tyr-Pro-Val	Met-Thr-Lys-Pro-Tyr-Pro-Val	Met-Thr-Lys-Pro-Tyr-Pro-Val	983
Met-Thr-Lys-Pro-Tyr-Lys-Val	Met-Thr-Lys-Pro-Tyr-Lys-Val	Met-Thr-Lys-Pro-Tyr-Lys-Val	984
Met-Thr-Lys-Pro-Arg-Val	Met-Thr-Lys-Pro-Arg-Val	Met-Thr-Lys-Pro-Arg-Val	985
Met-Thr-Lys-Pro-Arg-Arg-Val	Met-Thr-Lys-Pro-Arg-Arg-Val	Met-Thr-Lys-Pro-Arg-Arg-Val	986
Met-Thr-Lys-Pro-Arg-Phe-Val	Met-Thr-Lys-Pro-Arg-Phe-Val	Met-Thr-Lys-Pro-Arg-Phe-Val	987
Met-Thr-Lys-Pro-Arg-Tyr-Val	Met-Thr-Lys-Pro-Arg-Tyr-Val	Met-Thr-Lys-Pro-Arg-Tyr-Val	988

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Met-Thr-Lys-Pro-Arg-His-Val	Met-Thr-Lys-Pro-Arg-His-Val	Met-Thr-Lys-Pro-Arg-His-Val	989
Met-Thr-Lys-Pro-Arg-Pro-Val	Met-Thr-Lys-Pro-Arg-Pro-Val	Met-Thr-Lys-Pro-Arg-Pro-Val	990
Met-Thr-Lys-Pro-Arg-Lys-Val	Met-Thr-Lys-Pro-Arg-Lys-Val	Met-Thr-Lys-Pro-Arg-Lys-Val	991
Met(O)-Thr-Lys-Pro-Val	Met(O)-Thr-Lys-Pro-Val	Met(O)-Thr-Lys-Pro-Val	992
Met(O)-Thr-Lys-Pro-Arg-Val	Met(O)-Thr-Lys-Pro-Arg-Val	Met(O)-Thr-Lys-Pro-Arg-Val	993
Met(O)-Thr-Lys-Pro-Phe-Val	Met(O)-Thr-Lys-Pro-Phe-Val	Met(O)-Thr-Lys-Pro-Phe-Val	994
Met(O)-Thr-Lys-Pro-Tyr-Val	Met(O)-Thr-Lys-Pro-Tyr-Val	Met(O)-Thr-Lys-Pro-Tyr-Val	995
Met(O)-Thr-Lys-Pro-Gly-Val	Met(O)-Thr-Lys-Pro-Gly-Val	Met(O)-Thr-Lys-Pro-Gly-Val	996
Met(O)-Thr-Lys-Pro-His-Val	Met(O)-Thr-Lys-Pro-His-Val	Met(O)-Thr-Lys-Pro-His-Val	997
Met(O)-Thr-Lys-Pro-Lys-Val	Met(O)-Thr-Lys-Pro-Lys-Val	Met(O)-Thr-Lys-Pro-Lys-Val	998
Met(O)-Thr-Lys-Pro-Gly-Val	Met(O)-Thr-Lys-Pro-Gly-Val	Met(O)-Thr-Lys-Pro-Gly-Val	999
Met(O)-Thr-Lys-Pro-Gly-Arg-Val	Met(O)-Thr-Lys-Pro-Gly-Arg-Val	Met(O)-Thr-Lys-Pro-Gly-Arg-Val	1000
Met(O)-Thr-Lys-Pro-Gly-Phe-Val	Met(O)-Thr-Lys-Pro-Gly-Phe-Val	Met(O)-Thr-Lys-Pro-Gly-Phe-Val	1001
Met(O)-Thr-Lys-Pro-Gly-Tyr-Val	Met(O)-Thr-Lys-Pro-Gly-Tyr-Val	Met(O)-Thr-Lys-Pro-Gly-Tyr-Val	1002
Met(O)-Thr-Lys-Pro-Gly-His-Val	Met(O)-Thr-Lys-Pro-Gly-His-Val	Met(O)-Thr-Lys-Pro-Gly-His-Val	1003
Met(O)-Thr-Lys-Pro-Gly-Pro-Val	Met(O)-Thr-Lys-Pro-Gly-Pro-Val	Met(O)-Thr-Lys-Pro-Gly-Pro-Val	1004
Met(O)-Thr-Lys-Pro-Gly-Lys-Val	Met(O)-Thr-Lys-Pro-Gly-Lys-Val	Met(O)-Thr-Lys-Pro-Gly-Lys-Val	1005
Met(O)-Thr-Lys-Pro-Asp-Val	Met(O)-Thr-Lys-Pro-Asp-Val	Met(O)-Thr-Lys-Pro-Asp-Val	1006
Met(O)-Thr-Lys-Pro-Asp-Arg-Val	Met(O)-Thr-Lys-Pro-Asp-Arg-Val	Met(O)-Thr-Lys-Pro-Asp-Arg-Val	1007
Met(O)-Thr-Lys-Pro-Asp-Phe-Val	Met(O)-Thr-Lys-Pro-Asp-Phe-Val	Met(O)-Thr-Lys-Pro-Asp-Phe-Val	1008
Met(O)-Thr-Lys-Pro-Asp-Tyr-Val	Met(O)-Thr-Lys-Pro-Asp-Tyr-Val	Met(O)-Thr-Lys-Pro-Asp-Tyr-Val	1009
Met(O)-Thr-Lys-Pro-Asp-His-Val	Met(O)-Thr-Lys-Pro-Asp-His-Val	Met(O)-Thr-Lys-Pro-Asp-His-Val	1010
Met(O)-Thr-Lys-Pro-Asp-Pro-Val	Met(O)-Thr-Lys-Pro-Asp-Pro-Val	Met(O)-Thr-Lys-Pro-Asp-Pro-Val	1011
Met(O)-Thr-Lys-Pro-Asp-Lys-Val	Met(O)-Thr-Lys-Pro-Asp-Lys-Val	Met(O)-Thr-Lys-Pro-Asp-Lys-Val	1012
Met(O)-Thr-Lys-Pro-Trp-Val	Met(O)-Thr-Lys-Pro-Trp-Val	Met(O)-Thr-Lys-Pro-Trp-Val	1013
Met(O)-Thr-Lys-Pro-Trp-Arg-Val	Met(O)-Thr-Lys-Pro-Trp-Arg-Val	Met(O)-Thr-Lys-Pro-Trp-Arg-Val	1014
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Gly-Thr-Lys-Pro-Gln-His-Val	Gly-Thr-Lys-Pro-Gln-His-Val	Gly-Thr-Lys-Pro-Gln-His-Val	1304
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Gly-Thr-Lys-Pro-Gln-Lys-Val	Gly-Thr-Lys-Pro-Gln-Lys-Val	Gly-Thr-Lys-Pro-Gln-Lys-Val	1306
Gly-Thr-Lys-Pro-Asn-Val	Gly-Thr-Lys-Pro-Asn-Val	Gly-Thr-Lys-Pro-Asn-Val	1307
Gly-Thr-Lys-Pro-Asn-Arg-Val	Gly-Thr-Lys-Pro-Asn-Arg-Val	Gly-Thr-Lys-Pro-Asn-Arg-Val	1308
Gly-Thr-Lys-Pro-Asn-Phe-Val	Gly-Thr-Lys-Pro-Asn-Phe-Val	Gly-Thr-Lys-Pro-Asn-Phe-Val	1309
Gly-Thr-Lys-Pro-Asn-Tyr-Val	Gly-Thr-Lys-Pro-Asn-Tyr-Val	Gly-Thr-Lys-Pro-Asn-Tyr-Val	1310
Gly-Thr-Lys-Pro-Asn-His-Val	Gly-Thr-Lys-Pro-Asn-His-Val	Gly-Thr-Lys-Pro-Asn-His-Val	1311
Gly-Thr-Lys-Pro-Asn-Pro-Val	Gly-Thr-Lys-Pro-Asn-Pro-Val	Gly-Thr-Lys-Pro-Asn-Pro-Val	1312
Gly-Thr-Lys-Pro-Asn-Lys-Val	Gly-Thr-Lys-Pro-Asn-Lys-Val	Gly-Thr-Lys-Pro-Asn-Lys-Val	1313
Gly-Thr-Lys-Pro-Tyr-Val	Gly-Thr-Lys-Pro-Tyr-Val	Gly-Thr-Lys-Pro-Tyr-Val	1314
Gly-Thr-Lys-Pro-Tyr-Arg-Val	Gly-Thr-Lys-Pro-Tyr-Arg-Val	Gly-Thr-Lys-Pro-Tyr-Arg-Val	1315
Gly-Thr-Lys-Pro-Tyr-Phe-Val	Gly-Thr-Lys-Pro-Tyr-Phe-Val	Gly-Thr-Lys-Pro-Tyr-Phe-Val	1316
Gly-Thr-Lys-Pro-Tyr-Tyr-Val	Gly-Thr-Lys-Pro-Tyr-Tyr-Val	Gly-Thr-Lys-Pro-Tyr-Tyr-Val	1317
Gly-Thr-Lys-Pro-Tyr-His-Val	Gly-Thr-Lys-Pro-Tyr-His-Val	Gly-Thr-Lys-Pro-Tyr-His-Val	1318
Gly-Thr-Lys-Pro-Tyr-Pro-Val	Gly-Thr-Lys-Pro-Tyr-Pro-Val	Gly-Thr-Lys-Pro-Tyr-Pro-Val	1319
Gly-Thr-Lys-Pro-Tyr-Lys-Val	Gly-Thr-Lys-Pro-Tyr-Lys-Val	Gly-Thr-Lys-Pro-Tyr-Lys-Val	1320
Gly-Thr-Lys-Pro-Arg-Val	Gly-Thr-Lys-Pro-Arg-Val	Gly-Thr-Lys-Pro-Arg-Val	1321
Gly-Thr-Lys-Pro-Arg-Arg-Val	Gly-Thr-Lys-Pro-Arg-Arg-Val	Gly-Thr-Lys-Pro-Arg-Arg-Val	1322
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Gly-Thr-Lys-Pro-Arg-Tyr-Val	Gly-Thr-Lys-Pro-Arg-Tyr-Val	Gly-Thr-Lys-Pro-Arg-Tyr-Val	1324
Gly-Thr-Lys-Pro-Arg-His-Val	Gly-Thr-Lys-Pro-Arg-His-Val	Gly-Thr-Lys-Pro-Arg-His-Val	1325
Gly-Thr-Lys-Pro-Arg-Pro-Val	Gly-Thr-Lys-Pro-Arg-Pro-Val	Gly-Thr-Lys-Pro-Arg-Pro-Val	1326
Gly-Thr-Lys-Pro-Arg-Lys-Val	Gly-Thr-Lys-Pro-Arg-Lys-Val	Gly-Thr-Lys-Pro-Arg-Lys-Val	1327
Met-Thr-Lys-Pro-Gly	Met-Thr-Lys-Pro-Gly	Met-Thr-Lys-Pro-Gly	1328
Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	Met(O)-Thr-Lys-Pro-Gly	1329
Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	Thr-Thr-Lys-Pro-Gly	1330
Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	Ala-Thr-Lys-Pro-Gly	1331
His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	His-Thr-Lys-Pro-Gly	1332

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Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	Lys-Thr-Lys-Pro-Gly	1333
Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	Gly-Thr-Lys-Pro-Gly	1334
Thr-Lys-Pro-Arg-Tyr	Thr-Lys-Pro-Arg-Tyr	Thr-Lys-Pro-Arg-Tyr	1335
Thr-Lys-Pro-Phe-Tyr	Thr-Lys-Pro-Phe-Tyr	Thr-Lys-Pro-Phe-Tyr	1336
Thr-Lys-Pro-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr	1337
Thr-Lys-Pro-Gly-Tyr	Thr-Lys-Pro-Gly-Tyr	Thr-Lys-Pro-Gly-Tyr	1338
Thr-Lys-Pro-His-Tyr	Thr-Lys-Pro-His-Tyr	Thr-Lys-Pro-His-Tyr	1339
Thr-Lys-Pro-Lys-Tyr	Thr-Lys-Pro-Lys-Tyr	Thr-Lys-Pro-Lys-Tyr	1340
Thr-Lys-Pro-Gly-Tyr	Thr-Lys-Pro-Gly-Tyr	Thr-Lys-Pro-Gly-Tyr	1341
Thr-Lys-Pro-Gly-Arg-Tyr	Thr-Lys-Pro-Gly-Arg-Tyr	Thr-Lys-Pro-Gly-Arg-Tyr	1342
Thr-Lys-Pro-Gly-Phe-Tyr	Thr-Lys-Pro-Gly-Phe-Tyr	Thr-Lys-Pro-Gly-Phe-Tyr	1343
Thr-Lys-Pro-Gly-Tyr-Tyr	Thr-Lys-Pro-Gly-Tyr-Tyr	Thr-Lys-Pro-Gly-Tyr-Tyr	1344
Thr-Lys-Pro-Gly-His-Tyr	Thr-Lys-Pro-Gly-His-Tyr	Thr-Lys-Pro-Gly-His-Tyr	1345
Thr-Lys-Pro-Gly-Pro-Tyr	Thr-Lys-Pro-Gly-Pro-Tyr	Thr-Lys-Pro-Gly-Pro-Tyr	1346
Thr-Lys-Pro-Gly-Lys-Tyr	Thr-Lys-Pro-Gly-Lys-Tyr	Thr-Lys-Pro-Gly-Lys-Tyr	1347
Thr-Lys-Pro-Asp-Tyr	Thr-Lys-Pro-Asp-Tyr	Thr-Lys-Pro-Asp-Tyr	1348
Thr-Lys-Pro-Asp-Arg-Tyr	Thr-Lys-Pro-Asp-Arg-Tyr	Thr-Lys-Pro-Asp-Arg-Tyr	1349
Thr-Lys-Pro-Asp-Phe-Tyr	Thr-Lys-Pro-Asp-Phe-Tyr	Thr-Lys-Pro-Asp-Phe-Tyr	1350
Thr-Lys-Pro-Asp-Tyr-Tyr	Thr-Lys-Pro-Asp-Tyr-Tyr	Thr-Lys-Pro-Asp-Tyr-Tyr	1351
Thr-Lys-Pro-Asp-His-Tyr	Thr-Lys-Pro-Asp-His-Tyr	Thr-Lys-Pro-Asp-His-Tyr	1352
Thr-Lys-Pro-Asp-Pro-Tyr	Thr-Lys-Pro-Asp-Pro-Tyr	Thr-Lys-Pro-Asp-Pro-Tyr	1353
Thr-Lys-Pro-Asp-Lys-Tyr	Thr-Lys-Pro-Asp-Lys-Tyr	Thr-Lys-Pro-Asp-Lys-Tyr	1354
Thr-Lys-Pro-Trp-Tyr	Thr-Lys-Pro-Trp-Tyr	Thr-Lys-Pro-Trp-Tyr	1355
Thr-Lys-Pro-Trp-Arg-Tyr	Thr-Lys-Pro-Trp-Arg-Tyr	Thr-Lys-Pro-Trp-Arg-Tyr	1356
Thr-Lys-Pro-Trp-Phe-Tyr	Thr-Lys-Pro-Trp-Phe-Tyr	Thr-Lys-Pro-Trp-Phe-Tyr	1357
Thr-Lys-Pro-Trp-Tyr-Tyr	Thr-Lys-Pro-Trp-Tyr-Tyr	Thr-Lys-Pro-Trp-Tyr-Tyr	1358
Thr-Lys-Pro-Trp-His-Tyr	Thr-Lys-Pro-Trp-His-Tyr	Thr-Lys-Pro-Trp-His-Tyr	1359
Thr-Lys-Pro-Trp-Pro-Tyr	Thr-Lys-Pro-Trp-Pro-Tyr	Thr-Lys-Pro-Trp-Pro-Tyr	1360
Thr-Lys-Pro-Trp-Lys-Tyr	Thr-Lys-Pro-Trp-Lys-Tyr	Thr-Lys-Pro-Trp-Lys-Tyr	1361
Thr-Lys-Pro-Gln-Tyr	Thr-Lys-Pro-Gln-Tyr	Thr-Lys-Pro-Gln-Tyr	1362
Thr-Lys-Pro-Gln-Arg-Tyr	Thr-Lys-Pro-Gln-Arg-Tyr	Thr-Lys-Pro-Gln-Arg-Tyr	1363
Thr-Lys-Pro-Gln-Phe-Tyr	Thr-Lys-Pro-Gln-Phe-Tyr	Thr-Lys-Pro-Gln-Phe-Tyr	1364
Thr-Lys-Pro-Gln-Tyr-Tyr	Thr-Lys-Pro-Gln-Tyr-Tyr	Thr-Lys-Pro-Gln-Tyr-Tyr	1365
Thr-Lys-Pro-Gln-His-Tyr	Thr-Lys-Pro-Gln-His-Tyr	Thr-Lys-Pro-Gln-His-Tyr	1366
Thr-Lys-Pro-Gln-Pro-Tyr	Thr-Lys-Pro-Gln-Pro-Tyr	Thr-Lys-Pro-Gln-Pro-Tyr	1367
Thr-Lys-Pro-Gln-Lys-Tyr	Thr-Lys-Pro-Gln-Lys-Tyr	Thr-Lys-Pro-Gln-Lys-Tyr	1368
Thr-Lys-Pro-Asn-Tyr	Thr-Lys-Pro-Asn-Tyr	Thr-Lys-Pro-Asn-Tyr	1369
Thr-Lys-Pro-Asn-Arg-Tyr	Thr-Lys-Pro-Asn-Arg-Tyr	Thr-Lys-Pro-Asn-Arg-Tyr	1370
Thr-Lys-Pro-Asn-Phe-Tyr	Thr-Lys-Pro-Asn-Phe-Tyr	Thr-Lys-Pro-Asn-Phe-Tyr	1371
Thr-Lys-Pro-Asn-Tyr-Tyr	Thr-Lys-Pro-Asn-Tyr-Tyr	Thr-Lys-Pro-Asn-Tyr-Tyr	1372
Thr-Lys-Pro-Asn-His-Tyr	Thr-Lys-Pro-Asn-His-Tyr	Thr-Lys-Pro-Asn-His-Tyr	1373
Thr-Lys-Pro-Asn-Pro-Tyr	Thr-Lys-Pro-Asn-Pro-Tyr	Thr-Lys-Pro-Asn-Pro-Tyr	1374
Thr-Lys-Pro-Asn-Lys-Tyr	Thr-Lys-Pro-Asn-Lys-Tyr	Thr-Lys-Pro-Asn-Lys-Tyr	1375

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Thr-Lys-Pro-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr	1376
Thr-Lys-Pro-Tyr-Arg-Tyr	Thr-Lys-Pro-Tyr-Arg-Tyr	Thr-Lys-Pro-Tyr-Arg-Tyr	1377
Thr-Lys-Pro-Tyr-Phe-Tyr	Thr-Lys-Pro-Tyr-Phe-Tyr	Thr-Lys-Pro-Tyr-Phe-Tyr	1378
Thr-Lys-Pro-Tyr-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr-Tyr	Thr-Lys-Pro-Tyr-Tyr-Tyr	1379
Thr-Lys-Pro-Tyr-His-Tyr	Thr-Lys-Pro-Tyr-His-Tyr	Thr-Lys-Pro-Tyr-His-Tyr	1380
Thr-Lys-Pro-Tyr-Pro-Tyr	Thr-Lys-Pro-Tyr-Pro-Tyr	Thr-Lys-Pro-Tyr-Pro-Tyr	1381
Thr-Lys-Pro-Tyr-Lys-Tyr	Thr-Lys-Pro-Tyr-Lys-Tyr	Thr-Lys-Pro-Tyr-Lys-Tyr	1382
Thr-Lys-Pro-Arg-Tyr	Thr-Lys-Pro-Arg-Tyr	Thr-Lys-Pro-Arg-Tyr	1383
Thr-Lys-Pro-Arg-Arg-Tyr	Thr-Lys-Pro-Arg-Arg-Tyr	Thr-Lys-Pro-Arg-Arg-Tyr	1384
Thr-Lys-Pro-Arg-Phe-Tyr	Thr-Lys-Pro-Arg-Phe-Tyr	Thr-Lys-Pro-Arg-Phe-Tyr	1385
Thr-Lys-Pro-Arg-Tyr-Tyr	Thr-Lys-Pro-Arg-Tyr-Tyr	Thr-Lys-Pro-Arg-Tyr-Tyr	1386
Thr-Lys-Pro-Arg-His-Tyr	Thr-Lys-Pro-Arg-His-Tyr	Thr-Lys-Pro-Arg-His-Tyr	1387
Thr-Lys-Pro-Arg-Pro-Tyr	Thr-Lys-Pro-Arg-Pro-Tyr	Thr-Lys-Pro-Arg-Pro-Tyr	1388
Thr-Lys-Pro-Arg-Lys-Tyr	Thr-Lys-Pro-Arg-Lys-Tyr	Thr-Lys-Pro-Arg-Lys-Tyr	1389
Met-Thr-Lys-Pro-Tyr	Met-Thr-Lys-Pro-Tyr	Met-Thr-Lys-Pro-Tyr	1390
Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	1391
Met-Thr-Lys-Pro-Phe-Tyr	Met-Thr-Lys-Pro-Phe-Tyr	Met-Thr-Lys-Pro-Phe-Tyr	1392
Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	1393
Met-Thr-Lys-Pro-Gly-Tyr	Met-Thr-Lys-Pro-Gly-Tyr	Met-Thr-Lys-Pro-Gly-Tyr	1394
Met-Thr-Lys-Pro-His-Tyr	Met-Thr-Lys-Pro-His-Tyr	Met-Thr-Lys-Pro-His-Tyr	1395
Met-Thr-Lys-Pro-Lys-Tyr	Met-Thr-Lys-Pro-Lys-Tyr	Met-Thr-Lys-Pro-Lys-Tyr	1396
Met-Thr-Lys-Pro-Gly-Tyr	Met-Thr-Lys-Pro-Gly-Tyr	Met-Thr-Lys-Pro-Gly-Tyr	1397
Met-Thr-Lys-Pro-Gly-Arg-Tyr	Met-Thr-Lys-Pro-Gly-Arg-Tyr	Met-Thr-Lys-Pro-Gly-Arg-Tyr	1398
Met-Thr-Lys-Pro-Gly-Phe-Tyr	Met-Thr-Lys-Pro-Gly-Phe-Tyr	Met-Thr-Lys-Pro-Gly-Phe-Tyr	1399
Met-Thr-Lys-Pro-Gly-Tyr-Tyr	Met-Thr-Lys-Pro-Gly-Tyr-Tyr	Met-Thr-Lys-Pro-Gly-Tyr-Tyr	1400
Met-Thr-Lys-Pro-Gly-His-Tyr	Met-Thr-Lys-Pro-Gly-His-Tyr	Met-Thr-Lys-Pro-Gly-His-Tyr	1401
Met-Thr-Lys-Pro-Gly-Pro-Tyr	Met-Thr-Lys-Pro-Gly-Pro-Tyr	Met-Thr-Lys-Pro-Gly-Pro-Tyr	1402
Met-Thr-Lys-Pro-Gly-Lys-Tyr	Met-Thr-Lys-Pro-Gly-Lys-Tyr	Met-Thr-Lys-Pro-Gly-Lys-Tyr	1403
Met-Thr-Lys-Pro-Asp-Tyr	Met-Thr-Lys-Pro-Asp-Tyr	Met-Thr-Lys-Pro-Asp-Tyr	1404
Met-Thr-Lys-Pro-Asp-Arg-Tyr	Met-Thr-Lys-Pro-Asp-Arg-Tyr	Met-Thr-Lys-Pro-Asp-Arg-Tyr	1405
Met-Thr-Lys-Pro-Asp-Phe-Tyr	Met-Thr-Lys-Pro-Asp-Phe-Tyr	Met-Thr-Lys-Pro-Asp-Phe-Tyr	1406
Met-Thr-Lys-Pro-Asp-Tyr-Tyr	Met-Thr-Lys-Pro-Asp-Tyr-Tyr	Met-Thr-Lys-Pro-Asp-Tyr-Tyr	1407
Met-Thr-Lys-Pro-Asp-His-Tyr	Met-Thr-Lys-Pro-Asp-His-Tyr	Met-Thr-Lys-Pro-Asp-His-Tyr	1408
Met-Thr-Lys-Pro-Asp-Pro-Tyr	Met-Thr-Lys-Pro-Asp-Pro-Tyr	Met-Thr-Lys-Pro-Asp-Pro-Tyr	1409
Met-Thr-Lys-Pro-Asp-Lys-Tyr	Met-Thr-Lys-Pro-Asp-Lys-Tyr	Met-Thr-Lys-Pro-Asp-Lys-Tyr	1410
Met-Thr-Lys-Pro-Trp-Tyr	Met-Thr-Lys-Pro-Trp-Tyr	Met-Thr-Lys-Pro-Trp-Tyr	1411
Met-Thr-Lys-Pro-Trp-Arg-Tyr	Met-Thr-Lys-Pro-Trp-Arg-Tyr	Met-Thr-Lys-Pro-Trp-Arg-Tyr	1412
Met-Thr-Lys-Pro-Trp-Phe-Tyr	Met-Thr-Lys-Pro-Trp-Phe-Tyr	Met-Thr-Lys-Pro-Trp-Phe-Tyr	1413
Met-Thr-Lys-Pro-Trp-Tyr-Tyr	Met-Thr-Lys-Pro-Trp-Tyr-Tyr	Met-Thr-Lys-Pro-Trp-Tyr-Tyr	1414
Met-Thr-Lys-Pro-Trp-His-Tyr	Met-Thr-Lys-Pro-Trp-His-Tyr	Met-Thr-Lys-Pro-Trp-His-Tyr	1415
Met-Thr-Lys-Pro-Trp-Pro-Tyr	Met-Thr-Lys-Pro-Trp-Pro-Tyr	Met-Thr-Lys-Pro-Trp-Pro-Tyr	1416
Met-Thr-Lys-Pro-Trp-Lys-Tyr	Met-Thr-Lys-Pro-Trp-Lys-Tyr	Met-Thr-Lys-Pro-Trp-Lys-Tyr	1417
Met-Thr-Lys-Pro-Gln-Tyr	Met-Thr-Lys-Pro-Gln-Tyr	Met-Thr-Lys-Pro-Gln-Tyr	1418

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Met-Thr-Lys-Pro-Gln-Arg-Tyr	Met-Thr-Lys-Pro-Gln-Arg-Tyr	Met-Thr-Lys-Pro-Gln-Arg-Tyr	1419
Met-Thr-Lys-Pro-Gln-Phe-Tyr	Met-Thr-Lys-Pro-Gln-Phe-Tyr	Met-Thr-Lys-Pro-Gln-Phe-Tyr	1420
Met-Thr-Lys-Pro-Gln-Tyr-Tyr	Met-Thr-Lys-Pro-Gln-Tyr-Tyr	Met-Thr-Lys-Pro-Gln-Tyr-Tyr	1421
Met-Thr-Lys-Pro-Gln-His-Tyr	Met-Thr-Lys-Pro-Gln-His-Tyr	Met-Thr-Lys-Pro-Gln-His-Tyr	1422
Met-Thr-Lys-Pro-Gln-Pro-Tyr	Met-Thr-Lys-Pro-Gln-Pro-Tyr	Met-Thr-Lys-Pro-Gln-Pro-Tyr	1423
Met-Thr-Lys-Pro-Gln-Lys-Tyr	Met-Thr-Lys-Pro-Gln-Lys-Tyr	Met-Thr-Lys-Pro-Gln-Lys-Tyr	1424
Met-Thr-Lys-Pro-Asn-Tyr	Met-Thr-Lys-Pro-Asn-Tyr	Met-Thr-Lys-Pro-Asn-Tyr	1425
Met-Thr-Lys-Pro-Asn-Arg-Tyr	Met-Thr-Lys-Pro-Asn-Arg-Tyr	Met-Thr-Lys-Pro-Asn-Arg-Tyr	1426
Met-Thr-Lys-Pro-Asn-Phe-Tyr	Met-Thr-Lys-Pro-Asn-Phe-Tyr	Met-Thr-Lys-Pro-Asn-Phe-Tyr	1427
Met-Thr-Lys-Pro-Asn-Tyr-Tyr	Met-Thr-Lys-Pro-Asn-Tyr-Tyr	Met-Thr-Lys-Pro-Asn-Tyr-Tyr	1428
Met-Thr-Lys-Pro-Asn-His-Tyr	Met-Thr-Lys-Pro-Asn-His-Tyr	Met-Thr-Lys-Pro-Asn-His-Tyr	1429
Met-Thr-Lys-Pro-Asn-Pro-Tyr	Met-Thr-Lys-Pro-Asn-Pro-Tyr	Met-Thr-Lys-Pro-Asn-Pro-Tyr	1430
Met-Thr-Lys-Pro-Asn-Lys-Tyr	Met-Thr-Lys-Pro-Asn-Lys-Tyr	Met-Thr-Lys-Pro-Asn-Lys-Tyr	1431
Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr	1432
Met-Thr-Lys-Pro-Tyr-Arg-Tyr	Met-Thr-Lys-Pro-Tyr-Arg-Tyr	Met-Thr-Lys-Pro-Tyr-Arg-Tyr	1433
Met-Thr-Lys-Pro-Tyr-Phe-Tyr	Met-Thr-Lys-Pro-Tyr-Phe-Tyr	Met-Thr-Lys-Pro-Tyr-Phe-Tyr	1434
Met-Thr-Lys-Pro-Tyr-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr-Tyr	Met-Thr-Lys-Pro-Tyr-Tyr-Tyr	1435
Met-Thr-Lys-Pro-Tyr-His-Tyr	Met-Thr-Lys-Pro-Tyr-His-Tyr	Met-Thr-Lys-Pro-Tyr-His-Tyr	1436
Met-Thr-Lys-Pro-Tyr-Pro-Tyr	Met-Thr-Lys-Pro-Tyr-Pro-Tyr	Met-Thr-Lys-Pro-Tyr-Pro-Tyr	1437
Met-Thr-Lys-Pro-Tyr-Lys-Tyr	Met-Thr-Lys-Pro-Tyr-Lys-Tyr	Met-Thr-Lys-Pro-Tyr-Lys-Tyr	1438
Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Tyr	1439
Met-Thr-Lys-Pro-Arg-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Arg-Tyr	Met-Thr-Lys-Pro-Arg-Arg-Tyr	1440
Met-Thr-Lys-Pro-Arg-Phe-Tyr	Met-Thr-Lys-Pro-Arg-Phe-Tyr	Met-Thr-Lys-Pro-Arg-Phe-Tyr	1441
Met-Thr-Lys-Pro-Arg-Tyr-Tyr	Met-Thr-Lys-Pro-Arg-Tyr-Tyr	Met-Thr-Lys-Pro-Arg-Tyr-Tyr	1442
Met-Thr-Lys-Pro-Arg-His-Tyr	Met-Thr-Lys-Pro-Arg-His-Tyr	Met-Thr-Lys-Pro-Arg-His-Tyr	1443
Met-Thr-Lys-Pro-Arg-Pro-Tyr	Met-Thr-Lys-Pro-Arg-Pro-Tyr	Met-Thr-Lys-Pro-Arg-Pro-Tyr	1444
Met-Thr-Lys-Pro-Arg-Lys-Tyr	Met-Thr-Lys-Pro-Arg-Lys-Tyr	Met-Thr-Lys-Pro-Arg-Lys-Tyr	1445
Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr	1446
Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	1447
Met(O)-Thr-Lys-Pro-Phe-Tyr	Met(O)-Thr-Lys-Pro-Phe-Tyr	Met(O)-Thr-Lys-Pro-Phe-Tyr	1448
Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	1449
Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	1450
Met(O)-Thr-Lys-Pro-His-Tyr	Met(O)-Thr-Lys-Pro-His-Tyr	Met(O)-Thr-Lys-Pro-His-Tyr	1451
Met(O)-Thr-Lys-Pro-Lys-Tyr	Met(O)-Thr-Lys-Pro-Lys-Tyr	Met(O)-Thr-Lys-Pro-Lys-Tyr	1452
Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr	1453
Met(O)-Thr-Lys-Pro-Gly-Arg-Tyr	Met(O)-Thr-Lys-Pro-Gly-Arg-Tyr	Met(O)-Thr-Lys-Pro-Gly-Arg-Tyr	1454
Met(O)-Thr-Lys-Pro-Gly-Phe-Tyr	Met(O)-Thr-Lys-Pro-Gly-Phe-Tyr	Met(O)-Thr-Lys-Pro-Gly-Phe-Tyr	1455
Met(O)-Thr-Lys-Pro-Gly-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Gly-Tyr-Tyr	1456
Met(O)-Thr-Lys-Pro-Gly-His-Tyr	Met(O)-Thr-Lys-Pro-Gly-His-Tyr	Met(O)-Thr-Lys-Pro-Gly-His-Tyr	1457
Met(O)-Thr-Lys-Pro-Gly-Pro-Tyr	Met(O)-Thr-Lys-Pro-Gly-Pro-Tyr	Met(O)-Thr-Lys-Pro-Gly-Pro-Tyr	1458
Met(O)-Thr-Lys-Pro-Gly-Lys-Tyr	Met(O)-Thr-Lys-Pro-Gly-Lys-Tyr	Met(O)-Thr-Lys-Pro-Gly-Lys-Tyr	1459
Met(O)-Thr-Lys-Pro-Asp-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr	1460
Met(O)-Thr-Lys-Pro-Asp-Arg-Ty	Met(O)-Thr-Lys-Pro-Asp-Arg-Tyr	Met(O)-Thr-Lys-Pro-Asp-Arg-Tyr	1461

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Met(O)-Thr-Lys-Pro-Asp-Phe-Tyr	Met(O)-Thr-Lys-Pro-Asp-Phe-Tyr	Met(O)-Thr-Lys-Pro-Asp-Phe-Tyr	1462
Met(O)-Thr-Lys-Pro-Asp-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Asp-Tyr-Tyr	1463
Met(O)-Thr-Lys-Pro-Asp-His-Tyr	Met(O)-Thr-Lys-Pro-Asp-His-Tyr	Met(O)-Thr-Lys-Pro-Asp-His-Tyr	1464
Met(O)-Thr-Lys-Pro-Asp-Pro-Tyr	Met(O)-Thr-Lys-Pro-Asp-Pro-Tyr	Met(O)-Thr-Lys-Pro-Asp-Pro-Tyr	1465
Met(O)-Thr-Lys-Pro-Asp-Lys-Tyr	Met(O)-Thr-Lys-Pro-Asp-Lys-Tyr	Met(O)-Thr-Lys-Pro-Asp-Lys-Tyr	1466
Met(O)-Thr-Lys-Pro-Trp-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr	1467
Met(O)-Thr-Lys-Pro-Trp-Arg-Tyr	Met(O)-Thr-Lys-Pro-Trp-Arg-Tyr	Met(O)-Thr-Lys-Pro-Trp-Arg-Tyr	1468
Met(O)-Thr-Lys-Pro-Trp-Phe-Tyr	Met(O)-Thr-Lys-Pro-Trp-Phe-Tyr	Met(O)-Thr-Lys-Pro-Trp-Phe-Tyr	1469
Met(O)-Thr-Lys-Pro-Trp-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Trp-Tyr-Tyr	1470
Met(O)-Thr-Lys-Pro-Trp-His-Tyr	Met(O)-Thr-Lys-Pro-Trp-His-Tyr	Met(O)-Thr-Lys-Pro-Trp-His-Tyr	1471
Met(O)-Thr-Lys-Pro-Trp-Pro-Tyr	Met(O)-Thr-Lys-Pro-Trp-Pro-Tyr	Met(O)-Thr-Lys-Pro-Trp-Pro-Tyr	1472
Met(O)-Thr-Lys-Pro-Trp-Lys-Tyr	Met(O)-Thr-Lys-Pro-Trp-Lys-Tyr	Met(O)-Thr-Lys-Pro-Trp-Lys-Tyr	1473
Met(O)-Thr-Lys-Pro-Gln-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr	1474
Met(O)-Thr-Lys-Pro-Gln-Arg-Tyr	Met(O)-Thr-Lys-Pro-Gln-Arg-Tyr	Met(O)-Thr-Lys-Pro-Gln-Arg-Tyr	1475
Met(O)-Thr-Lys-Pro-Gln-Phe-Tyr	Met(O)-Thr-Lys-Pro-Gln-Phe-Tyr	Met(O)-Thr-Lys-Pro-Gln-Phe-Tyr	1476
Met(O)-Thr-Lys-Pro-Gln-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Gln-Tyr-Tyr	1477
Met(O)-Thr-Lys-Pro-Gln-His-Tyr	Met(O)-Thr-Lys-Pro-Gln-His-Tyr	Met(O)-Thr-Lys-Pro-Gln-His-Tyr	1478
Met(O)-Thr-Lys-Pro-Gln-Pro-Tyr	Met(O)-Thr-Lys-Pro-Gln-Pro-Tyr	Met(O)-Thr-Lys-Pro-Gln-Pro-Tyr	1479
Met(O)-Thr-Lys-Pro-Gln-Lys-Tyr	Met(O)-Thr-Lys-Pro-Gln-Lys-Tyr	Met(O)-Thr-Lys-Pro-Gln-Lys-Tyr	1480
Met(O)-Thr-Lys-Pro-Asn-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr	1481
Met(O)-Thr-Lys-Pro-Asn-Arg-Ty r	Met(O)-Thr-Lys-Pro-Asn-Arg-Tyr	Met(O)-Thr-Lys-Pro-Asn-Arg-Tyr	1482
Met(O)-Thr-Lys-Pro-Asn-Phe-Tyr	Met(O)-Thr-Lys-Pro-Asn-Phe-Tyr	Met(O)-Thr-Lys-Pro-Asn-Phe-Tyr	1483
Met(O)-Thr-Lys-Pro-Asn-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Asn-Tyr-Tyr	1484
Met(O)-Thr-Lys-Pro-Asn-His-Tyr	Met(O)-Thr-Lys-Pro-Asn-His-Tyr	Met(O)-Thr-Lys-Pro-Asn-His-Tyr	1485
Met(O)-Thr-Lys-Pro-Asn-Pro-Tyr	Met(O)-Thr-Lys-Pro-Asn-Pro-Tyr	Met(O)-Thr-Lys-Pro-Asn-Pro-Tyr	1486
Met(O)-Thr-Lys-Pro-Asn-Lys-Tyr	Met(O)-Thr-Lys-Pro-Asn-Lys-Tyr	Met(O)-Thr-Lys-Pro-Asn-Lys-Tyr	1487
Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr	1488
Met(O)-Thr-Lys-Pro-Tyr-Arg-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Arg-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Arg-Tyr	1489
Met(O)-Thr-Lys-Pro-Tyr-Phe-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Phe-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Phe-Tyr	1490
Met(O)-Thr-Lys-Pro-Tyr-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Tyr	1491
Met(O)-Thr-Lys-Pro-Tyr-His-Tyr	Met(O)-Thr-Lys-Pro-Tyr-His-Tyr	Met(O)-Thr-Lys-Pro-Tyr-His-Tyr	1492
Met(O)-Thr-Lys-Pro-Tyr-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Pro-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Pro-Tyr	1493
Met(O)-Thr-Lys-Pro-Tyr-Lys-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Lys-Tyr	Met(O)-Thr-Lys-Pro-Tyr-Lys-Tyr	1494
Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr	1495
Met(O)-Thr-Lys-Pro-Arg-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Arg-Tyr	Met(O)-Thr-Lys-Pro-Arg-Arg-Tyr	1496
Met(O)-Thr-Lys-Pro-Arg-Phe-Tyr	Met(O)-Thr-Lys-Pro-Arg-Phe-Tyr	Met(O)-Thr-Lys-Pro-Arg-Phe-Tyr	1497
Met(O)-Thr-Lys-Pro-Arg-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr-Tyr	Met(O)-Thr-Lys-Pro-Arg-Tyr-Tyr	1498
Met(O)-Thr-Lys-Pro-Arg-His-Tyr	Met(O)-Thr-Lys-Pro-Arg-His-Tyr	Met(O)-Thr-Lys-Pro-Arg-His-Tyr	1499
Met(O)-Thr-Lys-Pro-Arg-Pro-Tyr	Met(O)-Thr-Lys-Pro-Arg-Pro-Tyr	Met(O)-Thr-Lys-Pro-Arg-Pro-Tyr	1500
Met(O)-Thr-Lys-Pro-Arg-Lys-Tyr	Met(O)-Thr-Lys-Pro-Arg-Lys-Tyr	Met(O)-Thr-Lys-Pro-Arg-Lys-Tyr	1501
Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr	1502

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Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	1503
Thr-Thr-Lys-Pro-Phe-Tyr	Thr-Thr-Lys-Pro-Phe-Tyr	Thr-Thr-Lys-Pro-Phe-Tyr	1504
Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	1505
Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	1506
Thr-Thr-Lys-Pro-His-Tyr	Thr-Thr-Lys-Pro-His-Tyr	Thr-Thr-Lys-Pro-His-Tyr	1507
Thr-Thr-Lys-Pro-Lys-Tyr	Thr-Thr-Lys-Pro-Lys-Tyr	Thr-Thr-Lys-Pro-Lys-Tyr	1508
Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr	1509
Thr-Thr-Lys-Pro-Gly-Arg-Tyr	Thr-Thr-Lys-Pro-Gly-Arg-Tyr	Thr-Thr-Lys-Pro-Gly-Arg-Tyr	1510
Thr-Thr-Lys-Pro-Gly-Phe-Tyr	Thr-Thr-Lys-Pro-Gly-Phe-Tyr	Thr-Thr-Lys-Pro-Gly-Phe-Tyr	1511
Thr-Thr-Lys-Pro-Gly-Tyr-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr-Tyr	Thr-Thr-Lys-Pro-Gly-Tyr-Tyr	1512
Thr-Thr-Lys-Pro-Gly-His-Tyr	Thr-Thr-Lys-Pro-Gly-His-Tyr	Thr-Thr-Lys-Pro-Gly-His-Tyr	1513
Thr-Thr-Lys-Pro-Gly-Pro-Tyr	Thr-Thr-Lys-Pro-Gly-Pro-Tyr	Thr-Thr-Lys-Pro-Gly-Pro-Tyr	1514
Thr-Thr-Lys-Pro-Gly-Lys-Tyr	Thr-Thr-Lys-Pro-Gly-Lys-Tyr	Thr-Thr-Lys-Pro-Gly-Lys-Tyr	1515
Thr-Thr-Lys-Pro-Asp-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr	1516
Thr-Thr-Lys-Pro-Asp-Arg-Tyr	Thr-Thr-Lys-Pro-Asp-Arg-Tyr	Thr-Thr-Lys-Pro-Asp-Arg-Tyr	1517
Thr-Thr-Lys-Pro-Asp-Phe-Tyr	Thr-Thr-Lys-Pro-Asp-Phe-Tyr	Thr-Thr-Lys-Pro-Asp-Phe-Tyr	1518
Thr-Thr-Lys-Pro-Asp-Tyr-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr-Tyr	Thr-Thr-Lys-Pro-Asp-Tyr-Tyr	1519
Thr-Thr-Lys-Pro-Asp-His-Tyr	Thr-Thr-Lys-Pro-Asp-His-Tyr	Thr-Thr-Lys-Pro-Asp-His-Tyr	1520
Thr-Thr-Lys-Pro-Asp-Pro-Tyr	Thr-Thr-Lys-Pro-Asp-Pro-Tyr	Thr-Thr-Lys-Pro-Asp-Pro-Tyr	1521
Thr-Thr-Lys-Pro-Asp-Lys-Tyr	Thr-Thr-Lys-Pro-Asp-Lys-Tyr	Thr-Thr-Lys-Pro-Asp-Lys-Tyr	1522
Thr-Thr-Lys-Pro-Trp-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr	1523
Thr-Thr-Lys-Pro-Trp-Arg-Tyr	Thr-Thr-Lys-Pro-Trp-Arg-Tyr	Thr-Thr-Lys-Pro-Trp-Arg-Tyr	1524
Thr-Thr-Lys-Pro-Trp-Phe-Tyr	Thr-Thr-Lys-Pro-Trp-Phe-Tyr	Thr-Thr-Lys-Pro-Trp-Phe-Tyr	1525
Thr-Thr-Lys-Pro-Trp-Tyr-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr-Tyr	Thr-Thr-Lys-Pro-Trp-Tyr-Tyr	1526
Thr-Thr-Lys-Pro-Trp-His-Tyr	Thr-Thr-Lys-Pro-Trp-His-Tyr	Thr-Thr-Lys-Pro-Trp-His-Tyr	1527
Thr-Thr-Lys-Pro-Trp-Pro-Tyr	Thr-Thr-Lys-Pro-Trp-Pro-Tyr	Thr-Thr-Lys-Pro-Trp-Pro-Tyr	1528
Thr-Thr-Lys-Pro-Trp-Lys-Tyr	Thr-Thr-Lys-Pro-Trp-Lys-Tyr	Thr-Thr-Lys-Pro-Trp-Lys-Tyr	1529
Thr-Thr-Lys-Pro-Gln-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr	1530
Thr-Thr-Lys-Pro-Gln-Arg-Tyr	Thr-Thr-Lys-Pro-Gln-Arg-Tyr	Thr-Thr-Lys-Pro-Gln-Arg-Tyr	1531
Thr-Thr-Lys-Pro-Gln-Phe-Tyr	Thr-Thr-Lys-Pro-Gln-Phe-Tyr	Thr-Thr-Lys-Pro-Gln-Phe-Tyr	1532
Thr-Thr-Lys-Pro-Gln-Tyr-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr-Tyr	Thr-Thr-Lys-Pro-Gln-Tyr-Tyr	1533
Thr-Thr-Lys-Pro-Gln-His-Tyr	Thr-Thr-Lys-Pro-Gln-His-Tyr	Thr-Thr-Lys-Pro-Gln-His-Tyr	1534
Thr-Thr-Lys-Pro-Gln-Pro-Tyr	Thr-Thr-Lys-Pro-Gln-Pro-Tyr	Thr-Thr-Lys-Pro-Gln-Pro-Tyr	1535
Thr-Thr-Lys-Pro-Gln-Lys-Tyr	Thr-Thr-Lys-Pro-Gln-Lys-Tyr	Thr-Thr-Lys-Pro-Gln-Lys-Tyr	1536
Thr-Thr-Lys-Pro-Asn-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr	1537
Thr-Thr-Lys-Pro-Asn-Arg-Tyr	Thr-Thr-Lys-Pro-Asn-Arg-Tyr	Thr-Thr-Lys-Pro-Asn-Arg-Tyr	1538
Thr-Thr-Lys-Pro-Asn-Phe-Tyr	Thr-Thr-Lys-Pro-Asn-Phe-Tyr	Thr-Thr-Lys-Pro-Asn-Phe-Tyr	1539
Thr-Thr-Lys-Pro-Asn-Tyr-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr-Tyr	Thr-Thr-Lys-Pro-Asn-Tyr-Tyr	1540
Thr-Thr-Lys-Pro-Asn-His-Tyr	Thr-Thr-Lys-Pro-Asn-His-Tyr	Thr-Thr-Lys-Pro-Asn-His-Tyr	1541
Thr-Thr-Lys-Pro-Asn-Pro-Tyr	Thr-Thr-Lys-Pro-Asn-Pro-Tyr	Thr-Thr-Lys-Pro-Asn-Pro-Tyr	1542
Thr-Thr-Lys-Pro-Asn-Lys-Tyr	Thr-Thr-Lys-Pro-Asn-Lys-Tyr	Thr-Thr-Lys-Pro-Asn-Lys-Tyr	1543
Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr	1544
Thr-Thr-Lys-Pro-Tyr-Arg-Tyr	Thr-Thr-Lys-Pro-Tyr-Arg-Tyr	Thr-Thr-Lys-Pro-Tyr-Arg-Tyr	1545

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Thr-Thr-Lys-Pro-Tyr-Phe-Tyr	Thr-Thr-Lys-Pro-Tyr-Phe-Tyr	Thr-Thr-Lys-Pro-Tyr-Phe-Tyr	1546
Thr-Thr-Lys-Pro-Tyr-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr-Tyr	Thr-Thr-Lys-Pro-Tyr-Tyr-Tyr	1547
Thr-Thr-Lys-Pro-Tyr-His-Tyr	Thr-Thr-Lys-Pro-Tyr-His-Tyr	Thr-Thr-Lys-Pro-Tyr-His-Tyr	1548
Thr-Thr-Lys-Pro-Tyr-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr-Pro-Tyr	Thr-Thr-Lys-Pro-Tyr-Pro-Tyr	1549
Thr-Thr-Lys-Pro-Tyr-Lys-Tyr	Thr-Thr-Lys-Pro-Tyr-Lys-Tyr	Thr-Thr-Lys-Pro-Tyr-Lys-Tyr	1550
Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr	1551
Thr-Thr-Lys-Pro-Arg-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Arg-Tyr	Thr-Thr-Lys-Pro-Arg-Arg-Tyr	1552
Thr-Thr-Lys-Pro-Arg-Phe-Tyr	Thr-Thr-Lys-Pro-Arg-Phe-Tyr	Thr-Thr-Lys-Pro-Arg-Phe-Tyr	1553
Thr-Thr-Lys-Pro-Arg-Tyr-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr-Tyr	Thr-Thr-Lys-Pro-Arg-Tyr-Tyr	1554
Thr-Thr-Lys-Pro-Arg-His-Tyr	Thr-Thr-Lys-Pro-Arg-His-Tyr	Thr-Thr-Lys-Pro-Arg-His-Tyr	1555
Thr-Thr-Lys-Pro-Arg-Pro-Tyr	Thr-Thr-Lys-Pro-Arg-Pro-Tyr	Thr-Thr-Lys-Pro-Arg-Pro-Tyr	1556
Thr-Thr-Lys-Pro-Arg-Lys-Tyr	Thr-Thr-Lys-Pro-Arg-Lys-Tyr	Thr-Thr-Lys-Pro-Arg-Lys-Tyr	1557
Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr	1558
Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	1559
Ala-Thr-Lys-Pro-Phe-Tyr	Ala-Thr-Lys-Pro-Phe-Tyr	Ala-Thr-Lys-Pro-Phe-Tyr	1560
Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	1561
Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	1562
Ala-Thr-Lys-Pro-His-Tyr	Ala-Thr-Lys-Pro-His-Tyr	Ala-Thr-Lys-Pro-His-Tyr	1563
Ala-Thr-Lys-Pro-Lys-Tyr	Ala-Thr-Lys-Pro-Lys-Tyr	Ala-Thr-Lys-Pro-Lys-Tyr	1564
Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr	1565
Ala-Thr-Lys-Pro-Gly-Arg-Tyr	Ala-Thr-Lys-Pro-Gly-Arg-Tyr	Ala-Thr-Lys-Pro-Gly-Arg-Tyr	1566
Ala-Thr-Lys-Pro-Gly-Phe-Tyr	Ala-Thr-Lys-Pro-Gly-Phe-Tyr	Ala-Thr-Lys-Pro-Gly-Phe-Tyr	1567
Ala-Thr-Lys-Pro-Gly-Tyr-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr-Tyr	Ala-Thr-Lys-Pro-Gly-Tyr-Tyr	1568
Ala-Thr-Lys-Pro-Gly-His-Tyr	Ala-Thr-Lys-Pro-Gly-His-Tyr	Ala-Thr-Lys-Pro-Gly-His-Tyr	1569
Ala-Thr-Lys-Pro-Gly-Pro-Tyr	Ala-Thr-Lys-Pro-Gly-Pro-Tyr	Ala-Thr-Lys-Pro-Gly-Pro-Tyr	1570
Ala-Thr-Lys-Pro-Gly-Lys-Tyr	Ala-Thr-Lys-Pro-Gly-Lys-Tyr	Ala-Thr-Lys-Pro-Gly-Lys-Tyr	1571
Ala-Thr-Lys-Pro-Asp-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr	1572
Ala-Thr-Lys-Pro-Asp-Arg-Tyr	Ala-Thr-Lys-Pro-Asp-Arg-Tyr	Ala-Thr-Lys-Pro-Asp-Arg-Tyr	1573
Ala-Thr-Lys-Pro-Asp-Phe-Tyr	Ala-Thr-Lys-Pro-Asp-Phe-Tyr	Ala-Thr-Lys-Pro-Asp-Phe-Tyr	1574
Ala-Thr-Lys-Pro-Asp-Tyr-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr-Tyr	Ala-Thr-Lys-Pro-Asp-Tyr-Tyr	1575
Ala-Thr-Lys-Pro-Asp-His-Tyr	Ala-Thr-Lys-Pro-Asp-His-Tyr	Ala-Thr-Lys-Pro-Asp-His-Tyr	1576
Ala-Thr-Lys-Pro-Asp-Pro-Tyr	Ala-Thr-Lys-Pro-Asp-Pro-Tyr	Ala-Thr-Lys-Pro-Asp-Pro-Tyr	1577
Ala-Thr-Lys-Pro-Asp-Lys-Tyr	Ala-Thr-Lys-Pro-Asp-Lys-Tyr	Ala-Thr-Lys-Pro-Asp-Lys-Tyr	1578
Ala-Thr-Lys-Pro-Trp-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr	1579
Ala-Thr-Lys-Pro-Trp-Arg-Tyr	Ala-Thr-Lys-Pro-Trp-Arg-Tyr	Ala-Thr-Lys-Pro-Trp-Arg-Tyr	1580
Ala-Thr-Lys-Pro-Trp-Phe-Tyr	Ala-Thr-Lys-Pro-Trp-Phe-Tyr	Ala-Thr-Lys-Pro-Trp-Phe-Tyr	1581
Ala-Thr-Lys-Pro-Trp-Tyr-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr-Tyr	Ala-Thr-Lys-Pro-Trp-Tyr-Tyr	1582
Ala-Thr-Lys-Pro-Trp-His-Tyr	Ala-Thr-Lys-Pro-Trp-His-Tyr	Ala-Thr-Lys-Pro-Trp-His-Tyr	1583
Ala-Thr-Lys-Pro-Trp-Pro-Tyr	Ala-Thr-Lys-Pro-Trp-Pro-Tyr	Ala-Thr-Lys-Pro-Trp-Pro-Tyr	1584
Ala-Thr-Lys-Pro-Trp-Lys-Tyr	Ala-Thr-Lys-Pro-Trp-Lys-Tyr	Ala-Thr-Lys-Pro-Trp-Lys-Tyr	1585
Ala-Thr-Lys-Pro-Gln-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr	1586
Ala-Thr-Lys-Pro-Gln-Arg-Tyr	Ala-Thr-Lys-Pro-Gln-Arg-Tyr	Ala-Thr-Lys-Pro-Gln-Arg-Tyr	1587
Ala-Thr-Lys-Pro-Gln-Phe-Tyr	Ala-Thr-Lys-Pro-Gln-Phe-Tyr	Ala-Thr-Lys-Pro-Gln-Phe-Tyr	1588

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Ala-Thr-Lys-Pro-Gln-Tyr-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr-Tyr	Ala-Thr-Lys-Pro-Gln-Tyr-Tyr	1589
Ala-Thr-Lys-Pro-Gln-His-Tyr	Ala-Thr-Lys-Pro-Gln-His-Tyr	Ala-Thr-Lys-Pro-Gln-His-Tyr	1590
Ala-Thr-Lys-Pro-Gln-Pro-Tyr	Ala-Thr-Lys-Pro-Gln-Pro-Tyr	Ala-Thr-Lys-Pro-Gln-Pro-Tyr	1591
Ala-Thr-Lys-Pro-Gln-Lys-Tyr	Ala-Thr-Lys-Pro-Gln-Lys-Tyr	Ala-Thr-Lys-Pro-Gln-Lys-Tyr	1592
Ala-Thr-Lys-Pro-Asn-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr	1593
Ala-Thr-Lys-Pro-Asn-Arg-Tyr	Ala-Thr-Lys-Pro-Asn-Arg-Tyr	Ala-Thr-Lys-Pro-Asn-Arg-Tyr	1594
Ala-Thr-Lys-Pro-Asn-Phe-Tyr	Ala-Thr-Lys-Pro-Asn-Phe-Tyr	Ala-Thr-Lys-Pro-Asn-Phe-Tyr	1595
Ala-Thr-Lys-Pro-Asn-Tyr-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr-Tyr	Ala-Thr-Lys-Pro-Asn-Tyr-Tyr	1596
Ala-Thr-Lys-Pro-Asn-His-Tyr	Ala-Thr-Lys-Pro-Asn-His-Tyr	Ala-Thr-Lys-Pro-Asn-His-Tyr	1597
Ala-Thr-Lys-Pro-Asn-Pro-Tyr	Ala-Thr-Lys-Pro-Asn-Pro-Tyr	Ala-Thr-Lys-Pro-Asn-Pro-Tyr	1598
Ala-Thr-Lys-Pro-Asn-Lys-Tyr	Ala-Thr-Lys-Pro-Asn-Lys-Tyr	Ala-Thr-Lys-Pro-Asn-Lys-Tyr	1599
Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr	1600
Ala-Thr-Lys-Pro-Tyr-Arg-Tyr	Ala-Thr-Lys-Pro-Tyr-Arg-Tyr	Ala-Thr-Lys-Pro-Tyr-Arg-Tyr	1601
Ala-Thr-Lys-Pro-Tyr-Phe-Tyr	Ala-Thr-Lys-Pro-Tyr-Phe-Tyr	Ala-Thr-Lys-Pro-Tyr-Phe-Tyr	1602
Ala-Thr-Lys-Pro-Tyr-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr-Tyr	Ala-Thr-Lys-Pro-Tyr-Tyr-Tyr	1603
Ala-Thr-Lys-Pro-Tyr-His-Tyr	Ala-Thr-Lys-Pro-Tyr-His-Tyr	Ala-Thr-Lys-Pro-Tyr-His-Tyr	1604
Ala-Thr-Lys-Pro-Tyr-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr-Pro-Tyr	Ala-Thr-Lys-Pro-Tyr-Pro-Tyr	1605
Ala-Thr-Lys-Pro-Tyr-Lys-Tyr	Ala-Thr-Lys-Pro-Tyr-Lys-Tyr	Ala-Thr-Lys-Pro-Tyr-Lys-Tyr	1606
Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr	1607
Ala-Thr-Lys-Pro-Arg-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Arg-Tyr	Ala-Thr-Lys-Pro-Arg-Arg-Tyr	1608
Ala-Thr-Lys-Pro-Arg-Phe-Tyr	Ala-Thr-Lys-Pro-Arg-Phe-Tyr	Ala-Thr-Lys-Pro-Arg-Phe-Tyr	1609
Ala-Thr-Lys-Pro-Arg-Tyr-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr-Tyr	Ala-Thr-Lys-Pro-Arg-Tyr-Tyr	1610
Ala-Thr-Lys-Pro-Arg-His-Tyr	Ala-Thr-Lys-Pro-Arg-His-Tyr	Ala-Thr-Lys-Pro-Arg-His-Tyr	1611
Ala-Thr-Lys-Pro-Arg-Pro-Tyr	Ala-Thr-Lys-Pro-Arg-Pro-Tyr	Ala-Thr-Lys-Pro-Arg-Pro-Tyr	1612
Ala-Thr-Lys-Pro-Arg-Lys-Tyr	Ala-Thr-Lys-Pro-Arg-Lys-Tyr	Ala-Thr-Lys-Pro-Arg-Lys-Tyr	1613
His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	His-Thr-Lys-Pro-Tyr	1614
His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	1615
His-Thr-Lys-Pro-Phe-Tyr	His-Thr-Lys-Pro-Phe-Tyr	His-Thr-Lys-Pro-Phe-Tyr	1616
His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	1617
His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	1618
His-Thr-Lys-Pro-His-Tyr	His-Thr-Lys-Pro-His-Tyr	His-Thr-Lys-Pro-His-Tyr	1619
His-Thr-Lys-Pro-Lys-Tyr	His-Thr-Lys-Pro-Lys-Tyr	His-Thr-Lys-Pro-Lys-Tyr	1620
His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	His-Thr-Lys-Pro-Gly-Tyr	1621
His-Thr-Lys-Pro-Gly-Arg-Tyr	His-Thr-Lys-Pro-Gly-Arg-Tyr	His-Thr-Lys-Pro-Gly-Arg-Tyr	1622
His-Thr-Lys-Pro-Gly-Phe-Tyr	His-Thr-Lys-Pro-Gly-Phe-Tyr	His-Thr-Lys-Pro-Gly-Phe-Tyr	1623
His-Thr-Lys-Pro-Gly-Tyr-Tyr	His-Thr-Lys-Pro-Gly-Tyr-Tyr	His-Thr-Lys-Pro-Gly-Tyr-Tyr	1624
His-Thr-Lys-Pro-Gly-His-Tyr	His-Thr-Lys-Pro-Gly-His-Tyr	His-Thr-Lys-Pro-Gly-His-Tyr	1625
His-Thr-Lys-Pro-Gly-Pro-Tyr	His-Thr-Lys-Pro-Gly-Pro-Tyr	His-Thr-Lys-Pro-Gly-Pro-Tyr	1626
His-Thr-Lys-Pro-Gly-Lys-Tyr	His-Thr-Lys-Pro-Gly-Lys-Tyr	His-Thr-Lys-Pro-Gly-Lys-Tyr	1627
His-Thr-Lys-Pro-Asp-Tyr	His-Thr-Lys-Pro-Asp-Tyr	His-Thr-Lys-Pro-Asp-Tyr	1628
His-Thr-Lys-Pro-Asp-Arg-Tyr	His-Thr-Lys-Pro-Asp-Arg-Tyr	His-Thr-Lys-Pro-Asp-Arg-Tyr	1629
His-Thr-Lys-Pro-Asp-Phe-Tyr	His-Thr-Lys-Pro-Asp-Phe-Tyr	His-Thr-Lys-Pro-Asp-Phe-Tyr	1630
His-Thr-Lys-Pro-Asp-Tyr-Tyr	His-Thr-Lys-Pro-Asp-Tyr-Tyr	His-Thr-Lys-Pro-Asp-Tyr-Tyr	1631

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His-Thr-Lys-Pro-Asp-His-Tyr	His-Thr-Lys-Pro-Asp-His-Tyr	His-Thr-Lys-Pro-Asp-His-Tyr	1632
His-Thr-Lys-Pro-Asp-Pro-Tyr	His-Thr-Lys-Pro-Asp-Pro-Tyr	His-Thr-Lys-Pro-Asp-Pro-Tyr	1633
His-Thr-Lys-Pro-Asp-Lys-Tyr	His-Thr-Lys-Pro-Asp-Lys-Tyr	His-Thr-Lys-Pro-Asp-Lys-Tyr	1634
His-Thr-Lys-Pro-Trp-Tyr	His-Thr-Lys-Pro-Trp-Tyr	His-Thr-Lys-Pro-Trp-Tyr	1635
His-Thr-Lys-Pro-Trp-Arg-Tyr	His-Thr-Lys-Pro-Trp-Arg-Tyr	His-Thr-Lys-Pro-Trp-Arg-Tyr	1636
His-Thr-Lys-Pro-Trp-Phe-Tyr	His-Thr-Lys-Pro-Trp-Phe-Tyr	His-Thr-Lys-Pro-Trp-Phe-Tyr	1637
His-Thr-Lys-Pro-Trp-Tyr-Tyr	His-Thr-Lys-Pro-Trp-Tyr-Tyr	His-Thr-Lys-Pro-Trp-Tyr-Tyr	1638
His-Thr-Lys-Pro-Trp-His-Tyr	His-Thr-Lys-Pro-Trp-His-Tyr	His-Thr-Lys-Pro-Trp-His-Tyr	1639
His-Thr-Lys-Pro-Trp-Pro-Tyr	His-Thr-Lys-Pro-Trp-Pro-Tyr	His-Thr-Lys-Pro-Trp-Pro-Tyr	1640
His-Thr-Lys-Pro-Trp-Lys-Tyr	His-Thr-Lys-Pro-Trp-Lys-Tyr	His-Thr-Lys-Pro-Trp-Lys-Tyr	1641
His-Thr-Lys-Pro-Gln-Tyr	His-Thr-Lys-Pro-Gln-Tyr	His-Thr-Lys-Pro-Gln-Tyr	1642
His-Thr-Lys-Pro-Gln-Arg-Tyr	His-Thr-Lys-Pro-Gln-Arg-Tyr	His-Thr-Lys-Pro-Gln-Arg-Tyr	1643
His-Thr-Lys-Pro-Gln-Phe-Tyr	His-Thr-Lys-Pro-Gln-Phe-Tyr	His-Thr-Lys-Pro-Gln-Phe-Tyr	1644
His-Thr-Lys-Pro-Gln-Tyr-Tyr	His-Thr-Lys-Pro-Gln-Tyr-Tyr	His-Thr-Lys-Pro-Gln-Tyr-Tyr	1645
His-Thr-Lys-Pro-Gln-His-Tyr	His-Thr-Lys-Pro-Gln-His-Tyr	His-Thr-Lys-Pro-Gln-His-Tyr	1646
His-Thr-Lys-Pro-Gln-Pro-Tyr	His-Thr-Lys-Pro-Gln-Pro-Tyr	His-Thr-Lys-Pro-Gln-Pro-Tyr	1647
His-Thr-Lys-Pro-Gln-Lys-Tyr	His-Thr-Lys-Pro-Gln-Lys-Tyr	His-Thr-Lys-Pro-Gln-Lys-Tyr	1648
His-Thr-Lys-Pro-Asn-Tyr	His-Thr-Lys-Pro-Asn-Tyr	His-Thr-Lys-Pro-Asn-Tyr	1649
His-Thr-Lys-Pro-Asn-Arg-Tyr	His-Thr-Lys-Pro-Asn-Arg-Tyr	His-Thr-Lys-Pro-Asn-Arg-Tyr	1650
His-Thr-Lys-Pro-Asn-Phe-Tyr	His-Thr-Lys-Pro-Asn-Phe-Tyr	His-Thr-Lys-Pro-Asn-Phe-Tyr	1651
His-Thr-Lys-Pro-Asn-Tyr-Tyr	His-Thr-Lys-Pro-Asn-Tyr-Tyr	His-Thr-Lys-Pro-Asn-Tyr-Tyr	1652
His-Thr-Lys-Pro-Asn-His-Tyr	His-Thr-Lys-Pro-Asn-His-Tyr	His-Thr-Lys-Pro-Asn-His-Tyr	1653
His-Thr-Lys-Pro-Asn-Pro-Tyr	His-Thr-Lys-Pro-Asn-Pro-Tyr	His-Thr-Lys-Pro-Asn-Pro-Tyr	1654
His-Thr-Lys-Pro-Asn-Lys-Tyr	His-Thr-Lys-Pro-Asn-Lys-Tyr	His-Thr-Lys-Pro-Asn-Lys-Tyr	1655
His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr	1656
His-Thr-Lys-Pro-Tyr-Arg-Tyr	His-Thr-Lys-Pro-Tyr-Arg-Tyr	His-Thr-Lys-Pro-Tyr-Arg-Tyr	1657
His-Thr-Lys-Pro-Tyr-Phe-Tyr	His-Thr-Lys-Pro-Tyr-Phe-Tyr	His-Thr-Lys-Pro-Tyr-Phe-Tyr	1658
His-Thr-Lys-Pro-Tyr-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr-Tyr	His-Thr-Lys-Pro-Tyr-Tyr-Tyr	1659
His-Thr-Lys-Pro-Tyr-His-Tyr	His-Thr-Lys-Pro-Tyr-His-Tyr	His-Thr-Lys-Pro-Tyr-His-Tyr	1660
His-Thr-Lys-Pro-Tyr-Pro-Tyr	His-Thr-Lys-Pro-Tyr-Pro-Tyr	His-Thr-Lys-Pro-Tyr-Pro-Tyr	1661
His-Thr-Lys-Pro-Tyr-Lys-Tyr	His-Thr-Lys-Pro-Tyr-Lys-Tyr	His-Thr-Lys-Pro-Tyr-Lys-Tyr	1662
His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	His-Thr-Lys-Pro-Arg-Tyr	1663
His-Thr-Lys-Pro-Arg-Arg-Tyr	His-Thr-Lys-Pro-Arg-Arg-Tyr	His-Thr-Lys-Pro-Arg-Arg-Tyr	1664
His-Thr-Lys-Pro-Arg-Phe-Tyr	His-Thr-Lys-Pro-Arg-Phe-Tyr	His-Thr-Lys-Pro-Arg-Phe-Tyr	1665
His-Thr-Lys-Pro-Arg-Tyr-Tyr	His-Thr-Lys-Pro-Arg-Tyr-Tyr	His-Thr-Lys-Pro-Arg-Tyr-Tyr	1666
His-Thr-Lys-Pro-Arg-His-Tyr	His-Thr-Lys-Pro-Arg-His-Tyr	His-Thr-Lys-Pro-Arg-His-Tyr	1667
His-Thr-Lys-Pro-Arg-Pro-Tyr	His-Thr-Lys-Pro-Arg-Pro-Tyr	His-Thr-Lys-Pro-Arg-Pro-Tyr	1668
His-Thr-Lys-Pro-Arg-Lys-Tyr	His-Thr-Lys-Pro-Arg-Lys-Tyr	His-Thr-Lys-Pro-Arg-Lys-Tyr	1669
Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr	1670
Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	1671
Lys-Thr-Lys-Pro-Phe-Tyr	Lys-Thr-Lys-Pro-Phe-Tyr	Lys-Thr-Lys-Pro-Phe-Tyr	1672
Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	1673
Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	1674

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Lys-Thr-Lys-Pro-His-Tyr	Lys-Thr-Lys-Pro-His-Tyr	Lys-Thr-Lys-Pro-His-Tyr	1675
Lys-Thr-Lys-Pro-Lys-Tyr	Lys-Thr-Lys-Pro-Lys-Tyr	Lys-Thr-Lys-Pro-Lys-Tyr	1676
Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr	1677
Lys-Thr-Lys-Pro-Gly-Arg-Tyr	Lys-Thr-Lys-Pro-Gly-Arg-Tyr	Lys-Thr-Lys-Pro-Gly-Arg-Tyr	1678
Lys-Thr-Lys-Pro-Gly-Phe-Tyr	Lys-Thr-Lys-Pro-Gly-Phe-Tyr	Lys-Thr-Lys-Pro-Gly-Phe-Tyr	1679
Lys-Thr-Lys-Pro-Gly-Tyr-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr-Tyr	Lys-Thr-Lys-Pro-Gly-Tyr-Tyr	1680
Lys-Thr-Lys-Pro-Gly-His-Tyr	Lys-Thr-Lys-Pro-Gly-His-Tyr	Lys-Thr-Lys-Pro-Gly-His-Tyr	1681
Lys-Thr-Lys-Pro-Gly-Pro-Tyr	Lys-Thr-Lys-Pro-Gly-Pro-Tyr	Lys-Thr-Lys-Pro-Gly-Pro-Tyr	1682
Lys-Thr-Lys-Pro-Gly-Lys-Tyr	Lys-Thr-Lys-Pro-Gly-Lys-Tyr	Lys-Thr-Lys-Pro-Gly-Lys-Tyr	1683
Lys-Thr-Lys-Pro-Asp-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr	1684
Lys-Thr-Lys-Pro-Asp-Arg-Tyr	Lys-Thr-Lys-Pro-Asp-Arg-Tyr	Lys-Thr-Lys-Pro-Asp-Arg-Tyr	1685
Lys-Thr-Lys-Pro-Asp-Phe-Tyr	Lys-Thr-Lys-Pro-Asp-Phe-Tyr	Lys-Thr-Lys-Pro-Asp-Phe-Tyr	1686
Lys-Thr-Lys-Pro-Asp-Tyr-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr-Tyr	Lys-Thr-Lys-Pro-Asp-Tyr-Tyr	1687
Lys-Thr-Lys-Pro-Asp-His-Tyr	Lys-Thr-Lys-Pro-Asp-His-Tyr	Lys-Thr-Lys-Pro-Asp-His-Tyr	1688
Lys-Thr-Lys-Pro-Asp-Pro-Tyr	Lys-Thr-Lys-Pro-Asp-Pro-Tyr	Lys-Thr-Lys-Pro-Asp-Pro-Tyr	1689
Lys-Thr-Lys-Pro-Asp-Lys-Tyr	Lys-Thr-Lys-Pro-Asp-Lys-Tyr	Lys-Thr-Lys-Pro-Asp-Lys-Tyr	1690
Lys-Thr-Lys-Pro-Trp-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr	1691
Lys-Thr-Lys-Pro-Trp-Arg-Tyr	Lys-Thr-Lys-Pro-Trp-Arg-Tyr	Lys-Thr-Lys-Pro-Trp-Arg-Tyr	1692
Lys-Thr-Lys-Pro-Trp-Phe-Tyr	Lys-Thr-Lys-Pro-Trp-Phe-Tyr	Lys-Thr-Lys-Pro-Trp-Phe-Tyr	1693
Lys-Thr-Lys-Pro-Trp-Tyr-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr-Tyr	Lys-Thr-Lys-Pro-Trp-Tyr-Tyr	1694
Lys-Thr-Lys-Pro-Trp-His-Tyr	Lys-Thr-Lys-Pro-Trp-His-Tyr	Lys-Thr-Lys-Pro-Trp-His-Tyr	1695
Lys-Thr-Lys-Pro-Trp-Pro-Tyr	Lys-Thr-Lys-Pro-Trp-Pro-Tyr	Lys-Thr-Lys-Pro-Trp-Pro-Tyr	1696
Lys-Thr-Lys-Pro-Trp-Lys-Tyr	Lys-Thr-Lys-Pro-Trp-Lys-Tyr	Lys-Thr-Lys-Pro-Trp-Lys-Tyr	1697
Lys-Thr-Lys-Pro-Gln-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr	1698
Lys-Thr-Lys-Pro-Gln-Arg-Tyr	Lys-Thr-Lys-Pro-Gln-Arg-Tyr	Lys-Thr-Lys-Pro-Gln-Arg-Tyr	1699
Lys-Thr-Lys-Pro-Gln-Phe-Tyr	Lys-Thr-Lys-Pro-Gln-Phe-Tyr	Lys-Thr-Lys-Pro-Gln-Phe-Tyr	1700
Lys-Thr-Lys-Pro-Gln-Tyr-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr-Tyr	Lys-Thr-Lys-Pro-Gln-Tyr-Tyr	1701
Lys-Thr-Lys-Pro-Gln-His-Tyr	Lys-Thr-Lys-Pro-Gln-His-Tyr	Lys-Thr-Lys-Pro-Gln-His-Tyr	1702
Lys-Thr-Lys-Pro-Gln-Pro-Tyr	Lys-Thr-Lys-Pro-Gln-Pro-Tyr	Lys-Thr-Lys-Pro-Gln-Pro-Tyr	1703
Lys-Thr-Lys-Pro-Gln-Lys-Tyr	Lys-Thr-Lys-Pro-Gln-Lys-Tyr	Lys-Thr-Lys-Pro-Gln-Lys-Tyr	1704
Lys-Thr-Lys-Pro-Asn-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr	1705
Lys-Thr-Lys-Pro-Asn-Arg-Tyr	Lys-Thr-Lys-Pro-Asn-Arg-Tyr	Lys-Thr-Lys-Pro-Asn-Arg-Tyr	1706
Lys-Thr-Lys-Pro-Asn-Phe-Tyr	Lys-Thr-Lys-Pro-Asn-Phe-Tyr	Lys-Thr-Lys-Pro-Asn-Phe-Tyr	1707
Lys-Thr-Lys-Pro-Asn-Tyr-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr-Tyr	Lys-Thr-Lys-Pro-Asn-Tyr-Tyr	1708
Lys-Thr-Lys-Pro-Asn-His-Tyr	Lys-Thr-Lys-Pro-Asn-His-Tyr	Lys-Thr-Lys-Pro-Asn-His-Tyr	1709
Lys-Thr-Lys-Pro-Asn-Pro-Tyr	Lys-Thr-Lys-Pro-Asn-Pro-Tyr	Lys-Thr-Lys-Pro-Asn-Pro-Tyr	1710
Lys-Thr-Lys-Pro-Asn-Lys-Tyr	Lys-Thr-Lys-Pro-Asn-Lys-Tyr	Lys-Thr-Lys-Pro-Asn-Lys-Tyr	1711
Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr	1712
Lys-Thr-Lys-Pro-Tyr-Arg-Tyr	Lys-Thr-Lys-Pro-Tyr-Arg-Tyr	Lys-Thr-Lys-Pro-Tyr-Arg-Tyr	1713
Lys-Thr-Lys-Pro-Tyr-Phe-Tyr	Lys-Thr-Lys-Pro-Tyr-Phe-Tyr	Lys-Thr-Lys-Pro-Tyr-Phe-Tyr	1714
Lys-Thr-Lys-Pro-Tyr-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr-Tyr	Lys-Thr-Lys-Pro-Tyr-Tyr-Tyr	1715
Lys-Thr-Lys-Pro-Tyr-His-Tyr	Lys-Thr-Lys-Pro-Tyr-His-Tyr	Lys-Thr-Lys-Pro-Tyr-His-Tyr	1716
Lys-Thr-Lys-Pro-Tyr-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr-Pro-Tyr	Lys-Thr-Lys-Pro-Tyr-Pro-Tyr	1717

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Lys-Thr-Lys-Pro-Tyr-Lys-Tyr	Lys-Thr-Lys-Pro-Tyr-Lys-Tyr	Lys-Thr-Lys-Pro-Tyr-Lys-Tyr	1718
Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr	1719
Lys-Thr-Lys-Pro-Arg-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Arg-Tyr	Lys-Thr-Lys-Pro-Arg-Arg-Tyr	1720
Lys-Thr-Lys-Pro-Arg-Phe-Tyr	Lys-Thr-Lys-Pro-Arg-Phe-Tyr	Lys-Thr-Lys-Pro-Arg-Phe-Tyr	1721
Lys-Thr-Lys-Pro-Arg-Tyr-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr-Tyr	Lys-Thr-Lys-Pro-Arg-Tyr-Tyr	1722
Lys-Thr-Lys-Pro-Arg-His-Tyr	Lys-Thr-Lys-Pro-Arg-His-Tyr	Lys-Thr-Lys-Pro-Arg-His-Tyr	1723
Lys-Thr-Lys-Pro-Arg-Pro-Tyr	Lys-Thr-Lys-Pro-Arg-Pro-Tyr	Lys-Thr-Lys-Pro-Arg-Pro-Tyr	1724
Lys-Thr-Lys-Pro-Arg-Lys-Tyr	Lys-Thr-Lys-Pro-Arg-Lys-Tyr	Lys-Thr-Lys-Pro-Arg-Lys-Tyr	1725
Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr	1726
Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	1727
Gly-Thr-Lys-Pro-Phe-Tyr	Gly-Thr-Lys-Pro-Phe-Tyr	Gly-Thr-Lys-Pro-Phe-Tyr	1728
Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	1729
Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	1730
Gly-Thr-Lys-Pro-His-Tyr	Gly-Thr-Lys-Pro-His-Tyr	Gly-Thr-Lys-Pro-His-Tyr	1731
Gly-Thr-Lys-Pro-Lys-Tyr	Gly-Thr-Lys-Pro-Lys-Tyr	Gly-Thr-Lys-Pro-Lys-Tyr	1732
Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr	1733
Gly-Thr-Lys-Pro-Gly-Arg-Tyr	Gly-Thr-Lys-Pro-Gly-Arg-Tyr	Gly-Thr-Lys-Pro-Gly-Arg-Tyr	1734
Gly-Thr-Lys-Pro-Gly-Phe-Tyr	Gly-Thr-Lys-Pro-Gly-Phe-Tyr	Gly-Thr-Lys-Pro-Gly-Phe-Tyr	1735
Gly-Thr-Lys-Pro-Gly-Tyr-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr-Tyr	Gly-Thr-Lys-Pro-Gly-Tyr-Tyr	1736
Gly-Thr-Lys-Pro-Gly-His-Tyr	Gly-Thr-Lys-Pro-Gly-His-Tyr	Gly-Thr-Lys-Pro-Gly-His-Tyr	1737
Gly-Thr-Lys-Pro-Gly-Pro-Tyr	Gly-Thr-Lys-Pro-Gly-Pro-Tyr	Gly-Thr-Lys-Pro-Gly-Pro-Tyr	1738
Gly-Thr-Lys-Pro-Gly-Lys-Tyr	Gly-Thr-Lys-Pro-Gly-Lys-Tyr	Gly-Thr-Lys-Pro-Gly-Lys-Tyr	1739
Gly-Thr-Lys-Pro-Asp-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr	1740
Gly-Thr-Lys-Pro-Asp-Arg-Tyr	Gly-Thr-Lys-Pro-Asp-Arg-Tyr	Gly-Thr-Lys-Pro-Asp-Arg-Tyr	1741
Gly-Thr-Lys-Pro-Asp-Phe-Tyr	Gly-Thr-Lys-Pro-Asp-Phe-Tyr	Gly-Thr-Lys-Pro-Asp-Phe-Tyr	1742
Gly-Thr-Lys-Pro-Asp-Tyr-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr-Tyr	Gly-Thr-Lys-Pro-Asp-Tyr-Tyr	1743
Gly-Thr-Lys-Pro-Asp-His-Tyr	Gly-Thr-Lys-Pro-Asp-His-Tyr	Gly-Thr-Lys-Pro-Asp-His-Tyr	1744
Gly-Thr-Lys-Pro-Asp-Pro-Tyr	Gly-Thr-Lys-Pro-Asp-Pro-Tyr	Gly-Thr-Lys-Pro-Asp-Pro-Tyr	1745
Gly-Thr-Lys-Pro-Asp-Lys-Tyr	Gly-Thr-Lys-Pro-Asp-Lys-Tyr	Gly-Thr-Lys-Pro-Asp-Lys-Tyr	1746
Gly-Thr-Lys-Pro-Trp-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr	1747
Gly-Thr-Lys-Pro-Trp-Arg-Tyr	Gly-Thr-Lys-Pro-Trp-Arg-Tyr	Gly-Thr-Lys-Pro-Trp-Arg-Tyr	1748
Gly-Thr-Lys-Pro-Trp-Phe-Tyr	Gly-Thr-Lys-Pro-Trp-Phe-Tyr	Gly-Thr-Lys-Pro-Trp-Phe-Tyr	1749
Gly-Thr-Lys-Pro-Trp-Tyr-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr-Tyr	Gly-Thr-Lys-Pro-Trp-Tyr-Tyr	1750
Gly-Thr-Lys-Pro-Trp-His-Tyr	Gly-Thr-Lys-Pro-Trp-His-Tyr	Gly-Thr-Lys-Pro-Trp-His-Tyr	1751
Gly-Thr-Lys-Pro-Trp-Pro-Tyr	Gly-Thr-Lys-Pro-Trp-Pro-Tyr	Gly-Thr-Lys-Pro-Trp-Pro-Tyr	1752
Gly-Thr-Lys-Pro-Trp-Lys-Tyr	Gly-Thr-Lys-Pro-Trp-Lys-Tyr	Gly-Thr-Lys-Pro-Trp-Lys-Tyr	1753
Gly-Thr-Lys-Pro-Gln-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr	1754
Gly-Thr-Lys-Pro-Gln-Arg-Tyr	Gly-Thr-Lys-Pro-Gln-Arg-Tyr	Gly-Thr-Lys-Pro-Gln-Arg-Tyr	1755
Gly-Thr-Lys-Pro-Gln-Phe-Tyr	Gly-Thr-Lys-Pro-Gln-Phe-Tyr	Gly-Thr-Lys-Pro-Gln-Phe-Tyr	1756
Gly-Thr-Lys-Pro-Gln-Tyr-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr-Tyr	Gly-Thr-Lys-Pro-Gln-Tyr-Tyr	1757
Gly-Thr-Lys-Pro-Gln-His-Tyr	Gly-Thr-Lys-Pro-Gln-His-Tyr	Gly-Thr-Lys-Pro-Gln-His-Tyr	1758
Gly-Thr-Lys-Pro-Gln-Pro-Tyr	Gly-Thr-Lys-Pro-Gln-Pro-Tyr	Gly-Thr-Lys-Pro-Gln-Pro-Tyr	1759
Gly-Thr-Lys-Pro-Gln-Lys-Tyr	Gly-Thr-Lys-Pro-Gln-Lys-Tyr	Gly-Thr-Lys-Pro-Gln-Lys-Tyr	1760

Gly-Thr-Lys-Pro-Asn-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr	1761
Gly-Thr-Lys-Pro-Asn-Arg-Tyr	Gly-Thr-Lys-Pro-Asn-Arg-Tyr	Gly-Thr-Lys-Pro-Asn-Arg-Tyr	1762
Gly-Thr-Lys-Pro-Asn-Phe-Tyr	Gly-Thr-Lys-Pro-Asn-Phe-Tyr	Gly-Thr-Lys-Pro-Asn-Phe-Tyr	1763
Gly-Thr-Lys-Pro-Asn-Tyr-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr-Tyr	Gly-Thr-Lys-Pro-Asn-Tyr-Tyr	1764
Gly-Thr-Lys-Pro-Asn-His-Tyr	Gly-Thr-Lys-Pro-Asn-His-Tyr	Gly-Thr-Lys-Pro-Asn-His-Tyr	1765
Gly-Thr-Lys-Pro-Asn-Pro-Tyr	Gly-Thr-Lys-Pro-Asn-Pro-Tyr	Gly-Thr-Lys-Pro-Asn-Pro-Tyr	1766
Gly-Thr-Lys-Pro-Asn-Lys-Tyr	Gly-Thr-Lys-Pro-Asn-Lys-Tyr	Gly-Thr-Lys-Pro-Asn-Lys-Tyr	1767
Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr	1768
Gly-Thr-Lys-Pro-Tyr-Arg-Tyr	Gly-Thr-Lys-Pro-Tyr-Arg-Tyr	Gly-Thr-Lys-Pro-Tyr-Arg-Tyr	1769
Gly-Thr-Lys-Pro-Tyr-Phe-Tyr	Gly-Thr-Lys-Pro-Tyr-Phe-Tyr	Gly-Thr-Lys-Pro-Tyr-Phe-Tyr	1770
Gly-Thr-Lys-Pro-Tyr-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr-Tyr	Gly-Thr-Lys-Pro-Tyr-Tyr-Tyr	1771
Gly-Thr-Lys-Pro-Tyr-His-Tyr	Gly-Thr-Lys-Pro-Tyr-His-Tyr	Gly-Thr-Lys-Pro-Tyr-His-Tyr	1772
Gly-Thr-Lys-Pro-Tyr-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr-Pro-Tyr	Gly-Thr-Lys-Pro-Tyr-Pro-Tyr	1773
Gly-Thr-Lys-Pro-Tyr-Lys-Tyr	Gly-Thr-Lys-Pro-Tyr-Lys-Tyr	Gly-Thr-Lys-Pro-Tyr-Lys-Tyr	1774
Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr	1775
Gly-Thr-Lys-Pro-Arg-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Arg-Tyr	Gly-Thr-Lys-Pro-Arg-Arg-Tyr	1776
Gly-Thr-Lys-Pro-Arg-Phe-Tyr	Gly-Thr-Lys-Pro-Arg-Phe-Tyr	Gly-Thr-Lys-Pro-Arg-Phe-Tyr	1777
Gly-Thr-Lys-Pro-Arg-Tyr-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr-Tyr	Gly-Thr-Lys-Pro-Arg-Tyr-Tyr	1778
Gly-Thr-Lys-Pro-Arg-His-Tyr	Gly-Thr-Lys-Pro-Arg-His-Tyr	Gly-Thr-Lys-Pro-Arg-His-Tyr	1779
Gly-Thr-Lys-Pro-Arg-Pro-Tyr	Gly-Thr-Lys-Pro-Arg-Pro-Tyr	Gly-Thr-Lys-Pro-Arg-Pro-Tyr	1780
Gly-Thr-Lys-Pro-Arg-Lys-Tyr	Gly-Thr-Lys-Pro-Arg-Lys-Tyr	Gly-Thr-Lys-Pro-Arg-Lys-Tyr	1781
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Thr-Lys-Pro-Phe-Trp	Thr-Lys-Pro-Phe-Trp	Thr-Lys-Pro-Phe-Trp	1783
Thr-Lys-Pro-Tyr-Trp	Thr-Lys-Pro-Tyr-Trp	Thr-Lys-Pro-Tyr-Trp	1784
Thr-Lys-Pro-Gly-Trp	Thr-Lys-Pro-Gly-Trp	Thr-Lys-Pro-Gly-Trp	1785
Thr-Lys-Pro-His-Trp	Thr-Lys-Pro-His-Trp	Thr-Lys-Pro-His-Trp	1786
Thr-Lys-Pro-Lys-Trp	Thr-Lys-Pro-Lys-Trp	Thr-Lys-Pro-Lys-Trp	1787
Thr-Lys-Pro-Gly-Trp	Thr-Lys-Pro-Gly-Trp	Thr-Lys-Pro-Gly-Trp	1788
Thr-Lys-Pro-Gly-Arg-Trp	Thr-Lys-Pro-Gly-Arg-Trp	Thr-Lys-Pro-Gly-Arg-Trp	1789
Thr-Lys-Pro-Gly-Phe-Trp	Thr-Lys-Pro-Gly-Phe-Trp	Thr-Lys-Pro-Gly-Phe-Trp	1790
Thr-Lys-Pro-Gly-Tyr-Trp	Thr-Lys-Pro-Gly-Tyr-Trp	Thr-Lys-Pro-Gly-Tyr-Trp	1791
Thr-Lys-Pro-Gly-His-Trp	Thr-Lys-Pro-Gly-His-Trp	Thr-Lys-Pro-Gly-His-Trp	1792
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Thr-Lys-Pro-Gly-Lys-Trp	Thr-Lys-Pro-Gly-Lys-Trp	Thr-Lys-Pro-Gly-Lys-Trp	1794
Thr-Lys-Pro-Asp-Trp	Thr-Lys-Pro-Asp-Trp	Thr-Lys-Pro-Asp-Trp	1795
Thr-Lys-Pro-Asp-Arg-Trp	Thr-Lys-Pro-Asp-Arg-Trp	Thr-Lys-Pro-Asp-Arg-Trp	1796
Thr-Lys-Pro-Asp-Phe-Trp	Thr-Lys-Pro-Asp-Phe-Trp	Thr-Lys-Pro-Asp-Phe-Trp	1797
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Thr-Lys-Pro-Asp-His-Trp	Thr-Lys-Pro-Asp-His-Trp	Thr-Lys-Pro-Asp-His-Trp	1799
Thr-Lys-Pro-Asp-Pro-Trp	Thr-Lys-Pro-Asp-Pro-Trp	Thr-Lys-Pro-Asp-Pro-Trp	1800
Thr-Lys-Pro-Asp-Lys-Trp	Thr-Lys-Pro-Asp-Lys-Trp	Thr-Lys-Pro-Asp-Lys-Trp	1801
Thr-Lys-Pro-Trp-Trp	Thr-Lys-Pro-Trp-Trp	Thr-Lys-Pro-Trp-Trp	1802
Thr-Lys-Pro-Trp-Arg-Trp	Thr-Lys-Pro-Trp-Arg-Trp	Thr-Lys-Pro-Trp-Arg-Trp	1803

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Thr-Lys-Pro-Trp-Phe-Trp	Thr-Lys-Pro-Trp-Phe-Trp	Thr-Lys-Pro-Trp-Phe-Trp	1804
Thr-Lys-Pro-Trp-Tyr-Trp	Thr-Lys-Pro-Trp-Tyr-Trp	Thr-Lys-Pro-Trp-Tyr-Trp	1805
Thr-Lys-Pro-Trp-His-Trp	Thr-Lys-Pro-Trp-His-Trp	Thr-Lys-Pro-Trp-His-Trp	1806
Thr-Lys-Pro-Trp-Pro-Trp	Thr-Lys-Pro-Trp-Pro-Trp	Thr-Lys-Pro-Trp-Pro-Trp	1807
Thr-Lys-Pro-Trp-Lys-Trp	Thr-Lys-Pro-Trp-Lys-Trp	Thr-Lys-Pro-Trp-Lys-Trp	1808
Thr-Lys-Pro-Gln-Trp	Thr-Lys-Pro-Gln-Trp	Thr-Lys-Pro-Gln-Trp	1809
Thr-Lys-Pro-Gln-Arg-Trp	Thr-Lys-Pro-Gln-Arg-Trp	Thr-Lys-Pro-Gln-Arg-Trp	1810
Thr-Lys-Pro-Gln-Phe-Trp	Thr-Lys-Pro-Gln-Phe-Trp	Thr-Lys-Pro-Gln-Phe-Trp	1811
Thr-Lys-Pro-Gln-Tyr-Trp	Thr-Lys-Pro-Gln-Tyr-Trp	Thr-Lys-Pro-Gln-Tyr-Trp	1812
Thr-Lys-Pro-Gln-His-Trp	Thr-Lys-Pro-Gln-His-Trp	Thr-Lys-Pro-Gln-His-Trp	1813
Thr-Lys-Pro-Gln-Pro-Trp	Thr-Lys-Pro-Gln-Pro-Trp	Thr-Lys-Pro-Gln-Pro-Trp	1814
Thr-Lys-Pro-Gln-Lys-Trp	Thr-Lys-Pro-Gln-Lys-Trp	Thr-Lys-Pro-Gln-Lys-Trp	1815
Thr-Lys-Pro-Asn-Trp	Thr-Lys-Pro-Asn-Trp	Thr-Lys-Pro-Asn-Trp	1816
Thr-Lys-Pro-Asn-Arg-Trp	Thr-Lys-Pro-Asn-Arg-Trp	Thr-Lys-Pro-Asn-Arg-Trp	1817
Thr-Lys-Pro-Asn-Phe-Trp	Thr-Lys-Pro-Asn-Phe-Trp	Thr-Lys-Pro-Asn-Phe-Trp	1818
Thr-Lys-Pro-Asn-Tyr-Trp	Thr-Lys-Pro-Asn-Tyr-Trp	Thr-Lys-Pro-Asn-Tyr-Trp	1819
Thr-Lys-Pro-Asn-His-Trp	Thr-Lys-Pro-Asn-His-Trp	Thr-Lys-Pro-Asn-His-Trp	1820
Thr-Lys-Pro-Asn-Pro-Trp	Thr-Lys-Pro-Asn-Pro-Trp	Thr-Lys-Pro-Asn-Pro-Trp	1821
Thr-Lys-Pro-Asn-Lys-Trp	Thr-Lys-Pro-Asn-Lys-Trp	Thr-Lys-Pro-Asn-Lys-Trp	1822
Thr-Lys-Pro-Tyr-Trp	Thr-Lys-Pro-Tyr-Trp	Thr-Lys-Pro-Tyr-Trp	1823
Thr-Lys-Pro-Tyr-Arg-Trp	Thr-Lys-Pro-Tyr-Arg-Trp	Thr-Lys-Pro-Tyr-Arg-Trp	1824
Thr-Lys-Pro-Tyr-Phe-Trp	Thr-Lys-Pro-Tyr-Phe-Trp	Thr-Lys-Pro-Tyr-Phe-Trp	1825
Thr-Lys-Pro-Tyr-Tyr-Trp	Thr-Lys-Pro-Tyr-Tyr-Trp	Thr-Lys-Pro-Tyr-Tyr-Trp	1826
Thr-Lys-Pro-Tyr-His-Trp	Thr-Lys-Pro-Tyr-His-Trp	Thr-Lys-Pro-Tyr-His-Trp	1827
Thr-Lys-Pro-Tyr-Pro-Trp	Thr-Lys-Pro-Tyr-Pro-Trp	Thr-Lys-Pro-Tyr-Pro-Trp	1828
Thr-Lys-Pro-Tyr-Lys-Trp	Thr-Lys-Pro-Tyr-Lys-Trp	Thr-Lys-Pro-Tyr-Lys-Trp	1829
Thr-Lys-Pro-Arg-Trp	Thr-Lys-Pro-Arg-Trp	Thr-Lys-Pro-Arg-Trp	1830
Thr-Lys-Pro-Arg-Arg-Trp	Thr-Lys-Pro-Arg-Arg-Trp	Thr-Lys-Pro-Arg-Arg-Trp	1831
Thr-Lys-Pro-Arg-Phe-Trp	Thr-Lys-Pro-Arg-Phe-Trp	Thr-Lys-Pro-Arg-Phe-Trp	1832
Thr-Lys-Pro-Arg-Tyr-Trp	Thr-Lys-Pro-Arg-Tyr-Trp	Thr-Lys-Pro-Arg-Tyr-Trp	1833
Thr-Lys-Pro-Arg-His-Trp	Thr-Lys-Pro-Arg-His-Trp	Thr-Lys-Pro-Arg-His-Trp	1834
Thr-Lys-Pro-Arg-Pro-Trp	Thr-Lys-Pro-Arg-Pro-Trp	Thr-Lys-Pro-Arg-Pro-Trp	1835
Thr-Lys-Pro-Arg-Lys-Trp	Thr-Lys-Pro-Arg-Lys-Trp	Thr-Lys-Pro-Arg-Lys-Trp	1836
Met-Thr-Lys-Pro-Trp	Met-Thr-Lys-Pro-Trp	Met-Thr-Lys-Pro-Trp	1837
Met-Thr-Lys-Pro-Arg-Trp	Met-Thr-Lys-Pro-Arg-Trp	Met-Thr-Lys-Pro-Arg-Trp	1838
Met-Thr-Lys-Pro-Phe-Trp	Met-Thr-Lys-Pro-Phe-Trp	Met-Thr-Lys-Pro-Phe-Trp	1839
Met-Thr-Lys-Pro-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Trp	1840
Met-Thr-Lys-Pro-Gly-Trp	Met-Thr-Lys-Pro-Gly-Trp	Met-Thr-Lys-Pro-Gly-Trp	1841
Met-Thr-Lys-Pro-His-Trp	Met-Thr-Lys-Pro-His-Trp	Met-Thr-Lys-Pro-His-Trp	1842
Met-Thr-Lys-Pro-Lys-Trp	Met-Thr-Lys-Pro-Lys-Trp	Met-Thr-Lys-Pro-Lys-Trp	1843
Met-Thr-Lys-Pro-Gly-Trp	Met-Thr-Lys-Pro-Gly-Trp	Met-Thr-Lys-Pro-Gly-Trp	1844
Met-Thr-Lys-Pro-Gly-Arg-Trp	Met-Thr-Lys-Pro-Gly-Arg-Trp	Met-Thr-Lys-Pro-Gly-Arg-Trp	1845
Met-Thr-Lys-Pro-Gly-Phe-Trp	Met-Thr-Lys-Pro-Gly-Phe-Trp	Met-Thr-Lys-Pro-Gly-Phe-Trp	1846

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Met-Thr-Lys-Pro-Gly-Tyr-Trp	Met-Thr-Lys-Pro-Gly-Tyr-Trp	Met-Thr-Lys-Pro-Gly-Tyr-Trp	1847
Met-Thr-Lys-Pro-Gly-His-Trp	Met-Thr-Lys-Pro-Gly-His-Trp	Met-Thr-Lys-Pro-Gly-His-Trp	1848
Met-Thr-Lys-Pro-Gly-Pro-Trp	Met-Thr-Lys-Pro-Gly-Pro-Trp	Met-Thr-Lys-Pro-Gly-Pro-Trp	1849
Met-Thr-Lys-Pro-Gly-Lys-Trp	Met-Thr-Lys-Pro-Gly-Lys-Trp	Met-Thr-Lys-Pro-Gly-Lys-Trp	1850
Met-Thr-Lys-Pro-Asp-Trp	Met-Thr-Lys-Pro-Asp-Trp	Met-Thr-Lys-Pro-Asp-Trp	1851
Met-Thr-Lys-Pro-Asp-Arg-Trp	Met-Thr-Lys-Pro-Asp-Arg-Trp	Met-Thr-Lys-Pro-Asp-Arg-Trp	1852
Met-Thr-Lys-Pro-Asp-Phe-Trp	Met-Thr-Lys-Pro-Asp-Phe-Trp	Met-Thr-Lys-Pro-Asp-Phe-Trp	1853
Met-Thr-Lys-Pro-Asp-Tyr-Trp	Met-Thr-Lys-Pro-Asp-Tyr-Trp	Met-Thr-Lys-Pro-Asp-Tyr-Trp	1854
Met-Thr-Lys-Pro-Asp-His-Trp	Met-Thr-Lys-Pro-Asp-His-Trp	Met-Thr-Lys-Pro-Asp-His-Trp	1855
Met-Thr-Lys-Pro-Asp-Pro-Trp	Met-Thr-Lys-Pro-Asp-Pro-Trp	Met-Thr-Lys-Pro-Asp-Pro-Trp	1856
Met-Thr-Lys-Pro-Asp-Lys-Trp	Met-Thr-Lys-Pro-Asp-Lys-Trp	Met-Thr-Lys-Pro-Asp-Lys-Trp	1857
Met-Thr-Lys-Pro-Trp-Trp	Met-Thr-Lys-Pro-Trp-Trp	Met-Thr-Lys-Pro-Trp-Trp	1858
Met-Thr-Lys-Pro-Trp-Arg-Trp	Met-Thr-Lys-Pro-Trp-Arg-Trp	Met-Thr-Lys-Pro-Trp-Arg-Trp	1859
Met-Thr-Lys-Pro-Trp-Phe-Trp	Met-Thr-Lys-Pro-Trp-Phe-Trp	Met-Thr-Lys-Pro-Trp-Phe-Trp	1860
Met-Thr-Lys-Pro-Trp-Tyr-Trp	Met-Thr-Lys-Pro-Trp-Tyr-Trp	Met-Thr-Lys-Pro-Trp-Tyr-Trp	1861
Met-Thr-Lys-Pro-Trp-His-Trp	Met-Thr-Lys-Pro-Trp-His-Trp	Met-Thr-Lys-Pro-Trp-His-Trp	1862
Met-Thr-Lys-Pro-Trp-Pro-Trp	Met-Thr-Lys-Pro-Trp-Pro-Trp	Met-Thr-Lys-Pro-Trp-Pro-Trp	1863
Met-Thr-Lys-Pro-Trp-Lys-Trp	Met-Thr-Lys-Pro-Trp-Lys-Trp	Met-Thr-Lys-Pro-Trp-Lys-Trp	1864
Met-Thr-Lys-Pro-Gln-Trp	Met-Thr-Lys-Pro-Gln-Trp	Met-Thr-Lys-Pro-Gln-Trp	1865
Met-Thr-Lys-Pro-Gln-Arg-Trp	Met-Thr-Lys-Pro-Gln-Arg-Trp	Met-Thr-Lys-Pro-Gln-Arg-Trp	1866
Met-Thr-Lys-Pro-Gln-Phe-Trp	Met-Thr-Lys-Pro-Gln-Phe-Trp	Met-Thr-Lys-Pro-Gln-Phe-Trp	1867
Met-Thr-Lys-Pro-Gln-Tyr-Trp	Met-Thr-Lys-Pro-Gln-Tyr-Trp	Met-Thr-Lys-Pro-Gln-Tyr-Trp	1868
Met-Thr-Lys-Pro-Gln-His-Trp	Met-Thr-Lys-Pro-Gln-His-Trp	Met-Thr-Lys-Pro-Gln-His-Trp	1869
Met-Thr-Lys-Pro-Gln-Pro-Trp	Met-Thr-Lys-Pro-Gln-Pro-Trp	Met-Thr-Lys-Pro-Gln-Pro-Trp	1870
Met-Thr-Lys-Pro-Gln-Lys-Trp	Met-Thr-Lys-Pro-Gln-Lys-Trp	Met-Thr-Lys-Pro-Gln-Lys-Trp	1871
Met-Thr-Lys-Pro-Asn-Trp	Met-Thr-Lys-Pro-Asn-Trp	Met-Thr-Lys-Pro-Asn-Trp	1872
Met-Thr-Lys-Pro-Asn-Arg-Trp	Met-Thr-Lys-Pro-Asn-Arg-Trp	Met-Thr-Lys-Pro-Asn-Arg-Trp	1873
Met-Thr-Lys-Pro-Asn-Phe-Trp	Met-Thr-Lys-Pro-Asn-Phe-Trp	Met-Thr-Lys-Pro-Asn-Phe-Trp	1874
Met-Thr-Lys-Pro-Asn-Tyr-Trp	Met-Thr-Lys-Pro-Asn-Tyr-Trp	Met-Thr-Lys-Pro-Asn-Tyr-Trp	1875
Met-Thr-Lys-Pro-Asn-His-Trp	Met-Thr-Lys-Pro-Asn-His-Trp	Met-Thr-Lys-Pro-Asn-His-Trp	1876
Met-Thr-Lys-Pro-Asn-Pro-Trp	Met-Thr-Lys-Pro-Asn-Pro-Trp	Met-Thr-Lys-Pro-Asn-Pro-Trp	1877
Met-Thr-Lys-Pro-Asn-Lys-Trp	Met-Thr-Lys-Pro-Asn-Lys-Trp	Met-Thr-Lys-Pro-Asn-Lys-Trp	1878
Met-Thr-Lys-Pro-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Trp	1879
Met-Thr-Lys-Pro-Tyr-Arg-Trp	Met-Thr-Lys-Pro-Tyr-Arg-Trp	Met-Thr-Lys-Pro-Tyr-Arg-Trp	1880
Met-Thr-Lys-Pro-Tyr-Phe-Trp	Met-Thr-Lys-Pro-Tyr-Phe-Trp	Met-Thr-Lys-Pro-Tyr-Phe-Trp	1881
Met-Thr-Lys-Pro-Tyr-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Tyr-Trp	Met-Thr-Lys-Pro-Tyr-Tyr-Trp	1882
Met-Thr-Lys-Pro-Tyr-His-Trp	Met-Thr-Lys-Pro-Tyr-His-Trp	Met-Thr-Lys-Pro-Tyr-His-Trp	1883
Met-Thr-Lys-Pro-Tyr-Pro-Trp	Met-Thr-Lys-Pro-Tyr-Pro-Trp	Met-Thr-Lys-Pro-Tyr-Pro-Trp	1884
Met-Thr-Lys-Pro-Tyr-Lys-Trp	Met-Thr-Lys-Pro-Tyr-Lys-Trp	Met-Thr-Lys-Pro-Tyr-Lys-Trp	1885
Met-Thr-Lys-Pro-Arg-Trp	Met-Thr-Lys-Pro-Arg-Trp	Met-Thr-Lys-Pro-Arg-Trp	1886
Met-Thr-Lys-Pro-Arg-Arg-Trp	Met-Thr-Lys-Pro-Arg-Arg-Trp	Met-Thr-Lys-Pro-Arg-Arg-Trp	1887
Met-Thr-Lys-Pro-Arg-Phe-Trp	Met-Thr-Lys-Pro-Arg-Phe-Trp	Met-Thr-Lys-Pro-Arg-Phe-Trp	1888
Met-Thr-Lys-Pro-Arg-Tyr-Trp	Met-Thr-Lys-Pro-Arg-Tyr-Trp	Met-Thr-Lys-Pro-Arg-Tyr-Trp	1889

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Met-Thr-Lys-Pro-Arg-His-Trp	Met-Thr-Lys-Pro-Arg-His-Trp	Met-Thr-Lys-Pro-Arg-His-Trp	1890
Met-Thr-Lys-Pro-Arg-Pro-Trp	Met-Thr-Lys-Pro-Arg-Pro-Trp	Met-Thr-Lys-Pro-Arg-Pro-Trp	1891
Met-Thr-Lys-Pro-Arg-Lys-Trp	Met-Thr-Lys-Pro-Arg-Lys-Trp	Met-Thr-Lys-Pro-Arg-Lys-Trp	1892
Met(O)-Thr-Lys-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp	1893
Met(O)-Thr-Lys-Pro-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Trp	1894
Met(O)-Thr-Lys-Pro-Phe-Trp	Met(O)-Thr-Lys-Pro-Phe-Trp	Met(O)-Thr-Lys-Pro-Phe-Trp	1895
Met(O)-Thr-Lys-Pro-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Trp	1896
Met(O)-Thr-Lys-Pro-Gly-Trp	Met(O)-Thr-Lys-Pro-Gly-Trp	Met(O)-Thr-Lys-Pro-Gly-Trp	1897
Met(O)-Thr-Lys-Pro-His-Trp	Met(O)-Thr-Lys-Pro-His-Trp	Met(O)-Thr-Lys-Pro-His-Trp	1898
Met(O)-Thr-Lys-Pro-Lys-Trp	Met(O)-Thr-Lys-Pro-Lys-Trp	Met(O)-Thr-Lys-Pro-Lys-Trp	1899
Met(O)-Thr-Lys-Pro-Gly-Trp	Met(O)-Thr-Lys-Pro-Gly-Trp	Met(O)-Thr-Lys-Pro-Gly-Trp	1900
Met(O)-Thr-Lys-Pro-Gly-Arg-Trp	Met(O)-Thr-Lys-Pro-Gly-Arg-Trp	Met(O)-Thr-Lys-Pro-Gly-Arg-Trp	1901
Met(O)-Thr-Lys-Pro-Gly-Phe-Trp	Met(O)-Thr-Lys-Pro-Gly-Phe-Trp	Met(O)-Thr-Lys-Pro-Gly-Phe-Trp	1902
Met(O)-Thr-Lys-Pro-Gly-Tyr-Trp	Met(O)-Thr-Lys-Pro-Gly-Tyr-Trp	Met(O)-Thr-Lys-Pro-Gly-Tyr-Trp	1903
Met(O)-Thr-Lys-Pro-Gly-His-Trp	Met(O)-Thr-Lys-Pro-Gly-His-Trp	Met(O)-Thr-Lys-Pro-Gly-His-Trp	1904
Met(O)-Thr-Lys-Pro-Gly-Pro-Trp	Met(O)-Thr-Lys-Pro-Gly-Pro-Trp	Met(O)-Thr-Lys-Pro-Gly-Pro-Trp	1905
Met(O)-Thr-Lys-Pro-Gly-Lys-Trp	Met(O)-Thr-Lys-Pro-Gly-Lys-Trp	Met(O)-Thr-Lys-Pro-Gly-Lys-Trp	1906
Met(O)-Thr-Lys-Pro-Asp-Trp	Met(O)-Thr-Lys-Pro-Asp-Trp	Met(O)-Thr-Lys-Pro-Asp-Trp	1907
Met(O)-Thr-Lys-Pro-Asp-Arg-Trp	Met(O)-Thr-Lys-Pro-Asp-Arg-Trp	Met(O)-Thr-Lys-Pro-Asp-Arg-Trp	1908
Met(O)-Thr-Lys-Pro-Asp-Phe-Trp	Met(O)-Thr-Lys-Pro-Asp-Phe-Trp	Met(O)-Thr-Lys-Pro-Asp-Phe-Trp	1909
Met(O)-Thr-Lys-Pro-Asp-Tyr-Trp	Met(O)-Thr-Lys-Pro-Asp-Tyr-Trp	Met(O)-Thr-Lys-Pro-Asp-Tyr-Trp	1910
Met(O)-Thr-Lys-Pro-Asp-His-Trp	Met(O)-Thr-Lys-Pro-Asp-His-Trp	Met(O)-Thr-Lys-Pro-Asp-His-Trp	1911
Met(O)-Thr-Lys-Pro-Asp-Pro-Trp	Met(O)-Thr-Lys-Pro-Asp-Pro-Trp	Met(O)-Thr-Lys-Pro-Asp-Pro-Trp	1912
Met(O)-Thr-Lys-Pro-Asp-Lys-Trp	Met(O)-Thr-Lys-Pro-Asp-Lys-Trp	Met(O)-Thr-Lys-Pro-Asp-Lys-Trp	1913
Met(O)-Thr-Lys-Pro-Trp-Trp	Met(O)-Thr-Lys-Pro-Trp-Trp	Met(O)-Thr-Lys-Pro-Trp-Trp	1914
Met(O)-Thr-Lys-Pro-Trp-Arg-Trp	Met(O)-Thr-Lys-Pro-Trp-Arg-Trp	Met(O)-Thr-Lys-Pro-Trp-Arg-Trp	1915
Met(O)-Thr-Lys-Pro-Trp-Phe-Trp	Met(O)-Thr-Lys-Pro-Trp-Phe-Trp	Met(O)-Thr-Lys-Pro-Trp-Phe-Trp	1916
Met(O)-Thr-Lys-Pro-Trp-Tyr-Trp	Met(O)-Thr-Lys-Pro-Trp-Tyr-Trp	Met(O)-Thr-Lys-Pro-Trp-Tyr-Trp	1917
Met(O)-Thr-Lys-Pro-Trp-His-Trp	Met(O)-Thr-Lys-Pro-Trp-His-Trp	Met(O)-Thr-Lys-Pro-Trp-His-Trp	1918
Met(O)-Thr-Lys-Pro-Trp-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp-Pro-Trp	Met(O)-Thr-Lys-Pro-Trp-Pro-Trp	1919
Met(O)-Thr-Lys-Pro-Trp-Lys-Trp	Met(O)-Thr-Lys-Pro-Trp-Lys-Trp	Met(O)-Thr-Lys-Pro-Trp-Lys-Trp	1920
Met(O)-Thr-Lys-Pro-Gln-Trp	Met(O)-Thr-Lys-Pro-Gln-Trp	Met(O)-Thr-Lys-Pro-Gln-Trp	1921
Met(O)-Thr-Lys-Pro-Gln-Arg-Trp	Met(O)-Thr-Lys-Pro-Gln-Arg-Trp	Met(O)-Thr-Lys-Pro-Gln-Arg-Trp	1922
Met(O)-Thr-Lys-Pro-Gln-Phe-Trp	Met(O)-Thr-Lys-Pro-Gln-Phe-Trp	Met(O)-Thr-Lys-Pro-Gln-Phe-Trp	1923
Met(O)-Thr-Lys-Pro-Gln-Tyr-Trp	Met(O)-Thr-Lys-Pro-Gln-Tyr-Trp	Met(O)-Thr-Lys-Pro-Gln-Tyr-Trp	1924
Met(O)-Thr-Lys-Pro-Gln-His-Trp	Met(O)-Thr-Lys-Pro-Gln-His-Trp	Met(O)-Thr-Lys-Pro-Gln-His-Trp	1925
Met(O)-Thr-Lys-Pro-Gln-Pro-Trp	Met(O)-Thr-Lys-Pro-Gln-Pro-Trp	Met(O)-Thr-Lys-Pro-Gln-Pro-Trp	1926
Met(O)-Thr-Lys-Pro-Gln-Lys-Trp	Met(O)-Thr-Lys-Pro-Gln-Lys-Trp	Met(O)-Thr-Lys-Pro-Gln-Lys-Trp	1927
Met(O)-Thr-Lys-Pro-Asn-Trp	Met(O)-Thr-Lys-Pro-Asn-Trp	Met(O)-Thr-Lys-Pro-Asn-Trp	1928
Met(O)-Thr-Lys-Pro-Asn-Arg-Trp	Met(O)-Thr-Lys-Pro-Asn-Arg-Trp	Met(O)-Thr-Lys-Pro-Asn-Arg-Trp	1929

Met(O)-Thr-Lys-Pro-Asn-Phe-Trp	Met(O)-Thr-Lys-Pro-Asn-Phe-Trp	Met(O)-Thr-Lys-Pro-Asn-Phe-Trp	1930
Met(O)-Thr-Lys-Pro-Asn-Tyr-Trp	Met(O)-Thr-Lys-Pro-Asn-Tyr-Trp	Met(O)-Thr-Lys-Pro-Asn-Tyr-Trp	1931
Met(O)-Thr-Lys-Pro-Asn-His-Trp	Met(O)-Thr-Lys-Pro-Asn-His-Trp	Met(O)-Thr-Lys-Pro-Asn-His-Trp	1932
Met(O)-Thr-Lys-Pro-Asn-Pro-Trp	Met(O)-Thr-Lys-Pro-Asn-Pro-Trp	Met(O)-Thr-Lys-Pro-Asn-Pro-Trp	1933
Met(O)-Thr-Lys-Pro-Asn-Lys-Trp	Met(O)-Thr-Lys-Pro-Asn-Lys-Trp	Met(O)-Thr-Lys-Pro-Asn-Lys-Trp	1934
Met(O)-Thr-Lys-Pro-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Trp	1935
Met(O)-Thr-Lys-Pro-Tyr-Arg-Trp	Met(O)-Thr-Lys-Pro-Tyr-Arg-Trp	Met(O)-Thr-Lys-Pro-Tyr-Arg-Trp	1936
Met(O)-Thr-Lys-Pro-Tyr-Phe-Trp	Met(O)-Thr-Lys-Pro-Tyr-Phe-Trp	Met(O)-Thr-Lys-Pro-Tyr-Phe-Trp	1937
Met(O)-Thr-Lys-Pro-Tyr-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Trp	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Trp	1938
Met(O)-Thr-Lys-Pro-Tyr-His-Trp	Met(O)-Thr-Lys-Pro-Tyr-His-Trp	Met(O)-Thr-Lys-Pro-Tyr-His-Trp	1939
Met(O)-Thr-Lys-Pro-Tyr-Pro-Trp	Met(O)-Thr-Lys-Pro-Tyr-Pro-Trp	Met(O)-Thr-Lys-Pro-Tyr-Pro-Trp	1940
Met(O)-Thr-Lys-Pro-Tyr-Lys-Trp	Met(O)-Thr-Lys-Pro-Tyr-Lys-Trp	Met(O)-Thr-Lys-Pro-Tyr-Lys-Trp	1941
Met(O)-Thr-Lys-Pro-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Trp	1942
Met(O)-Thr-Lys-Pro-Arg-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Arg-Trp	Met(O)-Thr-Lys-Pro-Arg-Arg-Trp	1943
Met(O)-Thr-Lys-Pro-Arg-Phe-Trp	Met(O)-Thr-Lys-Pro-Arg-Phe-Trp	Met(O)-Thr-Lys-Pro-Arg-Phe-Trp	1944
Met(O)-Thr-Lys-Pro-Arg-Tyr-Trp	Met(O)-Thr-Lys-Pro-Arg-Tyr-Trp	Met(O)-Thr-Lys-Pro-Arg-Tyr-Trp	1945
Met(O)-Thr-Lys-Pro-Arg-His-Trp	Met(O)-Thr-Lys-Pro-Arg-His-Trp	Met(O)-Thr-Lys-Pro-Arg-His-Trp	1946
Met(O)-Thr-Lys-Pro-Arg-Pro-Trp	Met(O)-Thr-Lys-Pro-Arg-Pro-Trp	Met(O)-Thr-Lys-Pro-Arg-Pro-Trp	1947
Met(O)-Thr-Lys-Pro-Arg-Lys-Trp	Met(O)-Thr-Lys-Pro-Arg-Lys-Trp	Met(O)-Thr-Lys-Pro-Arg-Lys-Trp	1948
Thr-Thr-Lys-Pro-Trp	Thr-Thr-Lys-Pro-Trp	Thr-Thr-Lys-Pro-Trp	1949
Thr-Thr-Lys-Pro-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Trp	1950
Thr-Thr-Lys-Pro-Phe-Trp	Thr-Thr-Lys-Pro-Phe-Trp	Thr-Thr-Lys-Pro-Phe-Trp	1951
Thr-Thr-Lys-Pro-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Trp	1952
Thr-Thr-Lys-Pro-Gly-Trp	Thr-Thr-Lys-Pro-Gly-Trp	Thr-Thr-Lys-Pro-Gly-Trp	1953
Thr-Thr-Lys-Pro-His-Trp	Thr-Thr-Lys-Pro-His-Trp	Thr-Thr-Lys-Pro-His-Trp	1954
Thr-Thr-Lys-Pro-Lys-Trp	Thr-Thr-Lys-Pro-Lys-Trp	Thr-Thr-Lys-Pro-Lys-Trp	1955
Thr-Thr-Lys-Pro-Gly-Trp	Thr-Thr-Lys-Pro-Gly-Trp	Thr-Thr-Lys-Pro-Gly-Trp	1956
Thr-Thr-Lys-Pro-Gly-Arg-Trp	Thr-Thr-Lys-Pro-Gly-Arg-Trp	Thr-Thr-Lys-Pro-Gly-Arg-Trp	1957
Thr-Thr-Lys-Pro-Gly-Phe-Trp	Thr-Thr-Lys-Pro-Gly-Phe-Trp	Thr-Thr-Lys-Pro-Gly-Phe-Trp	1958
Thr-Thr-Lys-Pro-Gly-Tyr-Trp	Thr-Thr-Lys-Pro-Gly-Tyr-Trp	Thr-Thr-Lys-Pro-Gly-Tyr-Trp	1959
Thr-Thr-Lys-Pro-Gly-His-Trp	Thr-Thr-Lys-Pro-Gly-His-Trp	Thr-Thr-Lys-Pro-Gly-His-Trp	1960
Thr-Thr-Lys-Pro-Gly-Pro-Trp	Thr-Thr-Lys-Pro-Gly-Pro-Trp	Thr-Thr-Lys-Pro-Gly-Pro-Trp	1961
Thr-Thr-Lys-Pro-Gly-Lys-Trp	Thr-Thr-Lys-Pro-Gly-Lys-Trp	Thr-Thr-Lys-Pro-Gly-Lys-Trp	1962
Thr-Thr-Lys-Pro-Asp-Trp	Thr-Thr-Lys-Pro-Asp-Trp	Thr-Thr-Lys-Pro-Asp-Trp	1963
Thr-Thr-Lys-Pro-Asp-Arg-Trp	Thr-Thr-Lys-Pro-Asp-Arg-Trp	Thr-Thr-Lys-Pro-Asp-Arg-Trp	1964
Thr-Thr-Lys-Pro-Asp-Phe-Trp	Thr-Thr-Lys-Pro-Asp-Phe-Trp	Thr-Thr-Lys-Pro-Asp-Phe-Trp	1965
Thr-Thr-Lys-Pro-Asp-Tyr-Trp	Thr-Thr-Lys-Pro-Asp-Tyr-Trp	Thr-Thr-Lys-Pro-Asp-Tyr-Trp	1966
Thr-Thr-Lys-Pro-Asp-His-Trp	Thr-Thr-Lys-Pro-Asp-His-Trp	Thr-Thr-Lys-Pro-Asp-His-Trp	1967
Thr-Thr-Lys-Pro-Asp-Pro-Trp	Thr-Thr-Lys-Pro-Asp-Pro-Trp	Thr-Thr-Lys-Pro-Asp-Pro-Trp	1968
Thr-Thr-Lys-Pro-Asp-Lys-Trp	Thr-Thr-Lys-Pro-Asp-Lys-Trp	Thr-Thr-Lys-Pro-Asp-Lys-Trp	1969
Thr-Thr-Lys-Pro-Trp-Trp	Thr-Thr-Lys-Pro-Trp-Trp	Thr-Thr-Lys-Pro-Trp-Trp	1970
Thr-Thr-Lys-Pro-Trp-Arg-Trp	Thr-Thr-Lys-Pro-Trp-Arg-Trp	Thr-Thr-Lys-Pro-Trp-Arg-Trp	1971

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Thr-Thr-Lys-Pro-Trp-Phe-Trp	Thr-Thr-Lys-Pro-Trp-Phe-Trp	Thr-Thr-Lys-Pro-Trp-Phe-Trp	1972
Thr-Thr-Lys-Pro-Trp-Tyr-Trp	Thr-Thr-Lys-Pro-Trp-Tyr-Trp	Thr-Thr-Lys-Pro-Trp-Tyr-Trp	1973
Thr-Thr-Lys-Pro-Trp-His-Trp	Thr-Thr-Lys-Pro-Trp-His-Trp	Thr-Thr-Lys-Pro-Trp-His-Trp	1974
Thr-Thr-Lys-Pro-Trp-Pro-Trp	Thr-Thr-Lys-Pro-Trp-Pro-Trp	Thr-Thr-Lys-Pro-Trp-Pro-Trp	1975
Thr-Thr-Lys-Pro-Trp-Lys-Trp	Thr-Thr-Lys-Pro-Trp-Lys-Trp	Thr-Thr-Lys-Pro-Trp-Lys-Trp	1976
Thr-Thr-Lys-Pro-Gln-Trp	Thr-Thr-Lys-Pro-Gln-Trp	Thr-Thr-Lys-Pro-Gln-Trp	1977
Thr-Thr-Lys-Pro-Gln-Arg-Trp	Thr-Thr-Lys-Pro-Gln-Arg-Trp	Thr-Thr-Lys-Pro-Gln-Arg-Trp	1978
Thr-Thr-Lys-Pro-Gln-Phe-Trp	Thr-Thr-Lys-Pro-Gln-Phe-Trp	Thr-Thr-Lys-Pro-Gln-Phe-Trp	1979
Thr-Thr-Lys-Pro-Gln-Tyr-Trp	Thr-Thr-Lys-Pro-Gln-Tyr-Trp	Thr-Thr-Lys-Pro-Gln-Tyr-Trp	1980
Thr-Thr-Lys-Pro-Gln-His-Trp	Thr-Thr-Lys-Pro-Gln-His-Trp	Thr-Thr-Lys-Pro-Gln-His-Trp	1981
Thr-Thr-Lys-Pro-Gln-Pro-Trp	Thr-Thr-Lys-Pro-Gln-Pro-Trp	Thr-Thr-Lys-Pro-Gln-Pro-Trp	1982
Thr-Thr-Lys-Pro-Gln-Lys-Trp	Thr-Thr-Lys-Pro-Gln-Lys-Trp	Thr-Thr-Lys-Pro-Gln-Lys-Trp	1983
Thr-Thr-Lys-Pro-Asn-Trp	Thr-Thr-Lys-Pro-Asn-Trp	Thr-Thr-Lys-Pro-Asn-Trp	1984
Thr-Thr-Lys-Pro-Asn-Arg-Trp	Thr-Thr-Lys-Pro-Asn-Arg-Trp	Thr-Thr-Lys-Pro-Asn-Arg-Trp	1985
Thr-Thr-Lys-Pro-Asn-Phe-Trp	Thr-Thr-Lys-Pro-Asn-Phe-Trp	Thr-Thr-Lys-Pro-Asn-Phe-Trp	1986
Thr-Thr-Lys-Pro-Asn-Tyr-Trp	Thr-Thr-Lys-Pro-Asn-Tyr-Trp	Thr-Thr-Lys-Pro-Asn-Tyr-Trp	1987
Thr-Thr-Lys-Pro-Asn-His-Trp	Thr-Thr-Lys-Pro-Asn-His-Trp	Thr-Thr-Lys-Pro-Asn-His-Trp	1988
Thr-Thr-Lys-Pro-Asn-Pro-Trp	Thr-Thr-Lys-Pro-Asn-Pro-Trp	Thr-Thr-Lys-Pro-Asn-Pro-Trp	1989
Thr-Thr-Lys-Pro-Asn-Lys-Trp	Thr-Thr-Lys-Pro-Asn-Lys-Trp	Thr-Thr-Lys-Pro-Asn-Lys-Trp	1990
Thr-Thr-Lys-Pro-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Trp	1991
Thr-Thr-Lys-Pro-Tyr-Arg-Trp	Thr-Thr-Lys-Pro-Tyr-Arg-Trp	Thr-Thr-Lys-Pro-Tyr-Arg-Trp	1992
Thr-Thr-Lys-Pro-Tyr-Phe-Trp	Thr-Thr-Lys-Pro-Tyr-Phe-Trp	Thr-Thr-Lys-Pro-Tyr-Phe-Trp	1993
Thr-Thr-Lys-Pro-Tyr-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Tyr-Trp	Thr-Thr-Lys-Pro-Tyr-Tyr-Trp	1994
Thr-Thr-Lys-Pro-Tyr-His-Trp	Thr-Thr-Lys-Pro-Tyr-His-Trp	Thr-Thr-Lys-Pro-Tyr-His-Trp	1995
Thr-Thr-Lys-Pro-Tyr-Pro-Trp	Thr-Thr-Lys-Pro-Tyr-Pro-Trp	Thr-Thr-Lys-Pro-Tyr-Pro-Trp	1996
Thr-Thr-Lys-Pro-Tyr-Lys-Trp	Thr-Thr-Lys-Pro-Tyr-Lys-Trp	Thr-Thr-Lys-Pro-Tyr-Lys-Trp	1997
Thr-Thr-Lys-Pro-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Trp	1998
Thr-Thr-Lys-Pro-Arg-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Arg-Trp	Thr-Thr-Lys-Pro-Arg-Arg-Trp	1999
Thr-Thr-Lys-Pro-Arg-Phe-Trp	Thr-Thr-Lys-Pro-Arg-Phe-Trp	Thr-Thr-Lys-Pro-Arg-Phe-Trp	2000
Thr-Thr-Lys-Pro-Arg-Tyr-Trp	Thr-Thr-Lys-Pro-Arg-Tyr-Trp	Thr-Thr-Lys-Pro-Arg-Tyr-Trp	2001
Thr-Thr-Lys-Pro-Arg-His-Trp	Thr-Thr-Lys-Pro-Arg-His-Trp	Thr-Thr-Lys-Pro-Arg-His-Trp	2002
Thr-Thr-Lys-Pro-Arg-Pro-Trp	Thr-Thr-Lys-Pro-Arg-Pro-Trp	Thr-Thr-Lys-Pro-Arg-Pro-Trp	2003
Thr-Thr-Lys-Pro-Arg-Lys-Trp	Thr-Thr-Lys-Pro-Arg-Lys-Trp	Thr-Thr-Lys-Pro-Arg-Lys-Trp	2004
Ala-Thr-Lys-Pro-Trp	Ala-Thr-Lys-Pro-Trp	Ala-Thr-Lys-Pro-Trp	2005
Ala-Thr-Lys-Pro-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Trp	2006
Ala-Thr-Lys-Pro-Phe-Trp	Ala-Thr-Lys-Pro-Phe-Trp	Ala-Thr-Lys-Pro-Phe-Trp	2007
Ala-Thr-Lys-Pro-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Trp	2008
Ala-Thr-Lys-Pro-Gly-Trp	Ala-Thr-Lys-Pro-Gly-Trp	Ala-Thr-Lys-Pro-Gly-Trp	2009
Ala-Thr-Lys-Pro-His-Trp	Ala-Thr-Lys-Pro-His-Trp	Ala-Thr-Lys-Pro-His-Trp	2010
Ala-Thr-Lys-Pro-Lys-Trp	Ala-Thr-Lys-Pro-Lys-Trp	Ala-Thr-Lys-Pro-Lys-Trp	2011
Ala-Thr-Lys-Pro-Gly-Trp	Ala-Thr-Lys-Pro-Gly-Trp	Ala-Thr-Lys-Pro-Gly-Trp	2012
Ala-Thr-Lys-Pro-Gly-Arg-Trp	Ala-Thr-Lys-Pro-Gly-Arg-Trp	Ala-Thr-Lys-Pro-Gly-Arg-Trp	2013
Ala-Thr-Lys-Pro-Gly-Phe-Trp	Ala-Thr-Lys-Pro-Gly-Phe-Trp	Ala-Thr-Lys-Pro-Gly-Phe-Trp	2014

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Ala-Thr-Lys-Pro-Gly-Tyr-Trp	Ala-Thr-Lys-Pro-Gly-Tyr-Trp	Ala-Thr-Lys-Pro-Gly-Tyr-Trp	2015
Ala-Thr-Lys-Pro-Gly-His-Trp	Ala-Thr-Lys-Pro-Gly-His-Trp	Ala-Thr-Lys-Pro-Gly-His-Trp	2016
Ala-Thr-Lys-Pro-Gly-Pro-Trp	Ala-Thr-Lys-Pro-Gly-Pro-Trp	Ala-Thr-Lys-Pro-Gly-Pro-Trp	2017
Ala-Thr-Lys-Pro-Gly-Lys-Trp	Ala-Thr-Lys-Pro-Gly-Lys-Trp	Ala-Thr-Lys-Pro-Gly-Lys-Trp	2018
Ala-Thr-Lys-Pro-Asp-Trp	Ala-Thr-Lys-Pro-Asp-Trp	Ala-Thr-Lys-Pro-Asp-Trp	2019
Ala-Thr-Lys-Pro-Asp-Arg-Trp	Ala-Thr-Lys-Pro-Asp-Arg-Trp	Ala-Thr-Lys-Pro-Asp-Arg-Trp	2020
Ala-Thr-Lys-Pro-Asp-Phe-Trp	Ala-Thr-Lys-Pro-Asp-Phe-Trp	Ala-Thr-Lys-Pro-Asp-Phe-Trp	2021
Ala-Thr-Lys-Pro-Asp-Tyr-Trp	Ala-Thr-Lys-Pro-Asp-Tyr-Trp	Ala-Thr-Lys-Pro-Asp-Tyr-Trp	2022
Ala-Thr-Lys-Pro-Asp-His-Trp	Ala-Thr-Lys-Pro-Asp-His-Trp	Ala-Thr-Lys-Pro-Asp-His-Trp	2023
Ala-Thr-Lys-Pro-Asp-Pro-Trp	Ala-Thr-Lys-Pro-Asp-Pro-Trp	Ala-Thr-Lys-Pro-Asp-Pro-Trp	2024
Ala-Thr-Lys-Pro-Asp-Lys-Trp	Ala-Thr-Lys-Pro-Asp-Lys-Trp	Ala-Thr-Lys-Pro-Asp-Lys-Trp	2025
Ala-Thr-Lys-Pro-Trp-Trp	Ala-Thr-Lys-Pro-Trp-Trp	Ala-Thr-Lys-Pro-Trp-Trp	2026
Ala-Thr-Lys-Pro-Trp-Arg-Trp	Ala-Thr-Lys-Pro-Trp-Arg-Trp	Ala-Thr-Lys-Pro-Trp-Arg-Trp	2027
Ala-Thr-Lys-Pro-Trp-Phe-Trp	Ala-Thr-Lys-Pro-Trp-Phe-Trp	Ala-Thr-Lys-Pro-Trp-Phe-Trp	2028
Ala-Thr-Lys-Pro-Trp-Tyr-Trp	Ala-Thr-Lys-Pro-Trp-Tyr-Trp	Ala-Thr-Lys-Pro-Trp-Tyr-Trp	2029
Ala-Thr-Lys-Pro-Trp-His-Trp	Ala-Thr-Lys-Pro-Trp-His-Trp	Ala-Thr-Lys-Pro-Trp-His-Trp	2030
Ala-Thr-Lys-Pro-Trp-Pro-Trp	Ala-Thr-Lys-Pro-Trp-Pro-Trp	Ala-Thr-Lys-Pro-Trp-Pro-Trp	2031
Ala-Thr-Lys-Pro-Trp-Lys-Trp	Ala-Thr-Lys-Pro-Trp-Lys-Trp	Ala-Thr-Lys-Pro-Trp-Lys-Trp	2032
Ala-Thr-Lys-Pro-Gln-Trp	Ala-Thr-Lys-Pro-Gln-Trp	Ala-Thr-Lys-Pro-Gln-Trp	2033
Ala-Thr-Lys-Pro-Gln-Arg-Trp	Ala-Thr-Lys-Pro-Gln-Arg-Trp	Ala-Thr-Lys-Pro-Gln-Arg-Trp	2034
Ala-Thr-Lys-Pro-Gln-Phe-Trp	Ala-Thr-Lys-Pro-Gln-Phe-Trp	Ala-Thr-Lys-Pro-Gln-Phe-Trp	2035
Ala-Thr-Lys-Pro-Gln-Tyr-Trp	Ala-Thr-Lys-Pro-Gln-Tyr-Trp	Ala-Thr-Lys-Pro-Gln-Tyr-Trp	2036
Ala-Thr-Lys-Pro-Gln-His-Trp	Ala-Thr-Lys-Pro-Gln-His-Trp	Ala-Thr-Lys-Pro-Gln-His-Trp	2037
Ala-Thr-Lys-Pro-Gln-Pro-Trp	Ala-Thr-Lys-Pro-Gln-Pro-Trp	Ala-Thr-Lys-Pro-Gln-Pro-Trp	2038
Ala-Thr-Lys-Pro-Gln-Lys-Trp	Ala-Thr-Lys-Pro-Gln-Lys-Trp	Ala-Thr-Lys-Pro-Gln-Lys-Trp	2039
Ala-Thr-Lys-Pro-Asn-Trp	Ala-Thr-Lys-Pro-Asn-Trp	Ala-Thr-Lys-Pro-Asn-Trp	2040
Ala-Thr-Lys-Pro-Asn-Arg-Trp	Ala-Thr-Lys-Pro-Asn-Arg-Trp	Ala-Thr-Lys-Pro-Asn-Arg-Trp	2041
Ala-Thr-Lys-Pro-Asn-Phe-Trp	Ala-Thr-Lys-Pro-Asn-Phe-Trp	Ala-Thr-Lys-Pro-Asn-Phe-Trp	2042
Ala-Thr-Lys-Pro-Asn-Tyr-Trp	Ala-Thr-Lys-Pro-Asn-Tyr-Trp	Ala-Thr-Lys-Pro-Asn-Tyr-Trp	2043
Ala-Thr-Lys-Pro-Asn-His-Trp	Ala-Thr-Lys-Pro-Asn-His-Trp	Ala-Thr-Lys-Pro-Asn-His-Trp	2044
Ala-Thr-Lys-Pro-Asn-Pro-Trp	Ala-Thr-Lys-Pro-Asn-Pro-Trp	Ala-Thr-Lys-Pro-Asn-Pro-Trp	2045
Ala-Thr-Lys-Pro-Asn-Lys-Trp	Ala-Thr-Lys-Pro-Asn-Lys-Trp	Ala-Thr-Lys-Pro-Asn-Lys-Trp	2046
Ala-Thr-Lys-Pro-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Trp	2047
Ala-Thr-Lys-Pro-Tyr-Arg-Trp	Ala-Thr-Lys-Pro-Tyr-Arg-Trp	Ala-Thr-Lys-Pro-Tyr-Arg-Trp	2048
Ala-Thr-Lys-Pro-Tyr-Phe-Trp	Ala-Thr-Lys-Pro-Tyr-Phe-Trp	Ala-Thr-Lys-Pro-Tyr-Phe-Trp	2049
Ala-Thr-Lys-Pro-Tyr-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Tyr-Trp	Ala-Thr-Lys-Pro-Tyr-Tyr-Trp	2050
Ala-Thr-Lys-Pro-Tyr-His-Trp	Ala-Thr-Lys-Pro-Tyr-His-Trp	Ala-Thr-Lys-Pro-Tyr-His-Trp	2051
Ala-Thr-Lys-Pro-Tyr-Pro-Trp	Ala-Thr-Lys-Pro-Tyr-Pro-Trp	Ala-Thr-Lys-Pro-Tyr-Pro-Trp	2052
Ala-Thr-Lys-Pro-Tyr-Lys-Trp	Ala-Thr-Lys-Pro-Tyr-Lys-Trp	Ala-Thr-Lys-Pro-Tyr-Lys-Trp	2053
Ala-Thr-Lys-Pro-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Trp	2054
Ala-Thr-Lys-Pro-Arg-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Arg-Trp	Ala-Thr-Lys-Pro-Arg-Arg-Trp	2055
Ala-Thr-Lys-Pro-Arg-Phe-Trp	Ala-Thr-Lys-Pro-Arg-Phe-Trp	Ala-Thr-Lys-Pro-Arg-Phe-Trp	2056
Ala-Thr-Lys-Pro-Arg-Tyr-Trp	Ala-Thr-Lys-Pro-Arg-Tyr-Trp	Ala-Thr-Lys-Pro-Arg-Tyr-Trp	2057

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Ala-Thr-Lys-Pro-Arg-His-Trp	Ala-Thr-Lys-Pro-Arg-His-Trp	Ala-Thr-Lys-Pro-Arg-His-Trp	2058
Ala-Thr-Lys-Pro-Arg-Pro-Trp	Ala-Thr-Lys-Pro-Arg-Pro-Trp	Ala-Thr-Lys-Pro-Arg-Pro-Trp	2059
Ala-Thr-Lys-Pro-Arg-Lys-Trp	Ala-Thr-Lys-Pro-Arg-Lys-Trp	Ala-Thr-Lys-Pro-Arg-Lys-Trp	2060
His-Thr-Lys-Pro-Trp	His-Thr-Lys-Pro-Trp	His-Thr-Lys-Pro-Trp	2061
His-Thr-Lys-Pro-Arg-Trp	His-Thr-Lys-Pro-Arg-Trp	His-Thr-Lys-Pro-Arg-Trp	2062
His-Thr-Lys-Pro-Phe-Trp	His-Thr-Lys-Pro-Phe-Trp	His-Thr-Lys-Pro-Phe-Trp	2063
His-Thr-Lys-Pro-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Trp	2064
His-Thr-Lys-Pro-Gly-Trp	His-Thr-Lys-Pro-Gly-Trp	His-Thr-Lys-Pro-Gly-Trp	2065
His-Thr-Lys-Pro-His-Trp	His-Thr-Lys-Pro-His-Trp	His-Thr-Lys-Pro-His-Trp	2066
His-Thr-Lys-Pro-Lys-Trp	His-Thr-Lys-Pro-Lys-Trp	His-Thr-Lys-Pro-Lys-Trp	2067
His-Thr-Lys-Pro-Gly-Trp	His-Thr-Lys-Pro-Gly-Trp	His-Thr-Lys-Pro-Gly-Trp	2068
His-Thr-Lys-Pro-Gly-Arg-Trp	His-Thr-Lys-Pro-Gly-Arg-Trp	His-Thr-Lys-Pro-Gly-Arg-Trp	2069
His-Thr-Lys-Pro-Gly-Phe-Trp	His-Thr-Lys-Pro-Gly-Phe-Trp	His-Thr-Lys-Pro-Gly-Phe-Trp	2070
His-Thr-Lys-Pro-Gly-Tyr-Trp	His-Thr-Lys-Pro-Gly-Tyr-Trp	His-Thr-Lys-Pro-Gly-Tyr-Trp	2071
His-Thr-Lys-Pro-Gly-His-Trp	His-Thr-Lys-Pro-Gly-His-Trp	His-Thr-Lys-Pro-Gly-His-Trp	2072
His-Thr-Lys-Pro-Gly-Pro-Trp	His-Thr-Lys-Pro-Gly-Pro-Trp	His-Thr-Lys-Pro-Gly-Pro-Trp	2073
His-Thr-Lys-Pro-Gly-Lys-Trp	His-Thr-Lys-Pro-Gly-Lys-Trp	His-Thr-Lys-Pro-Gly-Lys-Trp	2074
His-Thr-Lys-Pro-Asp-Trp	His-Thr-Lys-Pro-Asp-Trp	His-Thr-Lys-Pro-Asp-Trp	2075
His-Thr-Lys-Pro-Asp-Arg-Trp	His-Thr-Lys-Pro-Asp-Arg-Trp	His-Thr-Lys-Pro-Asp-Arg-Trp	2076
His-Thr-Lys-Pro-Asp-Phe-Trp	His-Thr-Lys-Pro-Asp-Phe-Trp	His-Thr-Lys-Pro-Asp-Phe-Trp	2077
His-Thr-Lys-Pro-Asp-Tyr-Trp	His-Thr-Lys-Pro-Asp-Tyr-Trp	His-Thr-Lys-Pro-Asp-Tyr-Trp	2078
His-Thr-Lys-Pro-Asp-His-Trp	His-Thr-Lys-Pro-Asp-His-Trp	His-Thr-Lys-Pro-Asp-His-Trp	2079
His-Thr-Lys-Pro-Asp-Pro-Trp	His-Thr-Lys-Pro-Asp-Pro-Trp	His-Thr-Lys-Pro-Asp-Pro-Trp	2080
His-Thr-Lys-Pro-Asp-Lys-Trp	His-Thr-Lys-Pro-Asp-Lys-Trp	His-Thr-Lys-Pro-Asp-Lys-Trp	2081
His-Thr-Lys-Pro-Trp-Trp	His-Thr-Lys-Pro-Trp-Trp	His-Thr-Lys-Pro-Trp-Trp	2082
His-Thr-Lys-Pro-Trp-Arg-Trp	His-Thr-Lys-Pro-Trp-Arg-Trp	His-Thr-Lys-Pro-Trp-Arg-Trp	2083
His-Thr-Lys-Pro-Trp-Phe-Trp	His-Thr-Lys-Pro-Trp-Phe-Trp	His-Thr-Lys-Pro-Trp-Phe-Trp	2084
His-Thr-Lys-Pro-Trp-Tyr-Trp	His-Thr-Lys-Pro-Trp-Tyr-Trp	His-Thr-Lys-Pro-Trp-Tyr-Trp	2085
His-Thr-Lys-Pro-Trp-His-Trp	His-Thr-Lys-Pro-Trp-His-Trp	His-Thr-Lys-Pro-Trp-His-Trp	2086
His-Thr-Lys-Pro-Trp-Pro-Trp	His-Thr-Lys-Pro-Trp-Pro-Trp	His-Thr-Lys-Pro-Trp-Pro-Trp	2087
His-Thr-Lys-Pro-Trp-Lys-Trp	His-Thr-Lys-Pro-Trp-Lys-Trp	His-Thr-Lys-Pro-Trp-Lys-Trp	2088
His-Thr-Lys-Pro-Gln-Trp	His-Thr-Lys-Pro-Gln-Trp	His-Thr-Lys-Pro-Gln-Trp	2089
His-Thr-Lys-Pro-Gln-Arg-Trp	His-Thr-Lys-Pro-Gln-Arg-Trp	His-Thr-Lys-Pro-Gln-Arg-Trp	2090
His-Thr-Lys-Pro-Gln-Phe-Trp	His-Thr-Lys-Pro-Gln-Phe-Trp	His-Thr-Lys-Pro-Gln-Phe-Trp	2091
His-Thr-Lys-Pro-Gln-Tyr-Trp	His-Thr-Lys-Pro-Gln-Tyr-Trp	His-Thr-Lys-Pro-Gln-Tyr-Trp	2092
His-Thr-Lys-Pro-Gln-His-Trp	His-Thr-Lys-Pro-Gln-His-Trp	His-Thr-Lys-Pro-Gln-His-Trp	2093
His-Thr-Lys-Pro-Gln-Pro-Trp	His-Thr-Lys-Pro-Gln-Pro-Trp	His-Thr-Lys-Pro-Gln-Pro-Trp	2094
His-Thr-Lys-Pro-Gln-Lys-Trp	His-Thr-Lys-Pro-Gln-Lys-Trp	His-Thr-Lys-Pro-Gln-Lys-Trp	2095
His-Thr-Lys-Pro-Asn-Trp	His-Thr-Lys-Pro-Asn-Trp	His-Thr-Lys-Pro-Asn-Trp	2096
His-Thr-Lys-Pro-Asn-Arg-Trp	His-Thr-Lys-Pro-Asn-Arg-Trp	His-Thr-Lys-Pro-Asn-Arg-Trp	2097
His-Thr-Lys-Pro-Asn-Phe-Trp	His-Thr-Lys-Pro-Asn-Phe-Trp	His-Thr-Lys-Pro-Asn-Phe-Trp	2098
His-Thr-Lys-Pro-Asn-Tyr-Trp	His-Thr-Lys-Pro-Asn-Tyr-Trp	His-Thr-Lys-Pro-Asn-Tyr-Trp	2099
His-Thr-Lys-Pro-Asn-His-Trp	His-Thr-Lys-Pro-Asn-His-Trp	His-Thr-Lys-Pro-Asn-His-Trp	2100

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His-Thr-Lys-Pro-Asn-Pro-Trp	His-Thr-Lys-Pro-Asn-Pro-Trp	His-Thr-Lys-Pro-Asn-Pro-Trp	2101
His-Thr-Lys-Pro-Asn-Lys-Trp	His-Thr-Lys-Pro-Asn-Lys-Trp	His-Thr-Lys-Pro-Asn-Lys-Trp	2102
His-Thr-Lys-Pro-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Trp	2103
His-Thr-Lys-Pro-Tyr-Arg-Trp	His-Thr-Lys-Pro-Tyr-Arg-Trp	His-Thr-Lys-Pro-Tyr-Arg-Trp	2104
His-Thr-Lys-Pro-Tyr-Phe-Trp	His-Thr-Lys-Pro-Tyr-Phe-Trp	His-Thr-Lys-Pro-Tyr-Phe-Trp	2105
His-Thr-Lys-Pro-Tyr-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Tyr-Trp	His-Thr-Lys-Pro-Tyr-Tyr-Trp	2106
His-Thr-Lys-Pro-Tyr-His-Trp	His-Thr-Lys-Pro-Tyr-His-Trp	His-Thr-Lys-Pro-Tyr-His-Trp	2107
His-Thr-Lys-Pro-Tyr-Pro-Trp	His-Thr-Lys-Pro-Tyr-Pro-Trp	His-Thr-Lys-Pro-Tyr-Pro-Trp	2108
His-Thr-Lys-Pro-Tyr-Lys-Trp	His-Thr-Lys-Pro-Tyr-Lys-Trp	His-Thr-Lys-Pro-Tyr-Lys-Trp	2109
His-Thr-Lys-Pro-Arg-Trp	His-Thr-Lys-Pro-Arg-Trp	His-Thr-Lys-Pro-Arg-Trp	2110
His-Thr-Lys-Pro-Arg-Arg-Trp	His-Thr-Lys-Pro-Arg-Arg-Trp	His-Thr-Lys-Pro-Arg-Arg-Trp	2111
His-Thr-Lys-Pro-Arg-Phe-Trp	His-Thr-Lys-Pro-Arg-Phe-Trp	His-Thr-Lys-Pro-Arg-Phe-Trp	2112
His-Thr-Lys-Pro-Arg-Tyr-Trp	His-Thr-Lys-Pro-Arg-Tyr-Trp	His-Thr-Lys-Pro-Arg-Tyr-Trp	2113
His-Thr-Lys-Pro-Arg-His-Trp	His-Thr-Lys-Pro-Arg-His-Trp	His-Thr-Lys-Pro-Arg-His-Trp	2114
His-Thr-Lys-Pro-Arg-Pro-Trp	His-Thr-Lys-Pro-Arg-Pro-Trp	His-Thr-Lys-Pro-Arg-Pro-Trp	2115
His-Thr-Lys-Pro-Arg-Lys-Trp	His-Thr-Lys-Pro-Arg-Lys-Trp	His-Thr-Lys-Pro-Arg-Lys-Trp	2116
Lys-Thr-Lys-Pro-Trp	Lys-Thr-Lys-Pro-Trp	Lys-Thr-Lys-Pro-Trp	2117
Lys-Thr-Lys-Pro-Arg-Trp	Lys-Thr-Lys-Pro-Arg-Trp	Lys-Thr-Lys-Pro-Arg-Trp	2118
Lys-Thr-Lys-Pro-Phe-Trp	Lys-Thr-Lys-Pro-Phe-Trp	Lys-Thr-Lys-Pro-Phe-Trp	2119
Lys-Thr-Lys-Pro-Tyr-Trp	Lys-Thr-Lys-Pro-Tyr-Trp	Lys-Thr-Lys-Pro-Tyr-Trp	2120
Lys-Thr-Lys-Pro-Gly-Trp	Lys-Thr-Lys-Pro-Gly-Trp	Lys-Thr-Lys-Pro-Gly-Trp	2121
Lys-Thr-Lys-Pro-His-Trp	Lys-Thr-Lys-Pro-His-Trp	Lys-Thr-Lys-Pro-His-Trp	2122
Lys-Thr-Lys-Pro-Lys-Trp	Lys-Thr-Lys-Pro-Lys-Trp	Lys-Thr-Lys-Pro-Lys-Trp	2123
Lys-Thr-Lys-Pro-Gly-Trp	Lys-Thr-Lys-Pro-Gly-Trp	Lys-Thr-Lys-Pro-Gly-Trp	2124
Lys-Thr-Lys-Pro-Gly-Arg-Trp	Lys-Thr-Lys-Pro-Gly-Arg-Trp	Lys-Thr-Lys-Pro-Gly-Arg-Trp	2125
Lys-Thr-Lys-Pro-Gly-Phe-Trp	Lys-Thr-Lys-Pro-Gly-Phe-Trp	Lys-Thr-Lys-Pro-Gly-Phe-Trp	2126
Lys-Thr-Lys-Pro-Gly-Tyr-Trp	Lys-Thr-Lys-Pro-Gly-Tyr-Trp	Lys-Thr-Lys-Pro-Gly-Tyr-Trp	2127
Lys-Thr-Lys-Pro-Gly-His-Trp	Lys-Thr-Lys-Pro-Gly-His-Trp	Lys-Thr-Lys-Pro-Gly-His-Trp	2128
Lys-Thr-Lys-Pro-Gly-Pro-Trp	Lys-Thr-Lys-Pro-Gly-Pro-Trp	Lys-Thr-Lys-Pro-Gly-Pro-Trp	2129
Lys-Thr-Lys-Pro-Gly-Lys-Trp	Lys-Thr-Lys-Pro-Gly-Lys-Trp	Lys-Thr-Lys-Pro-Gly-Lys-Trp	2130
Lys-Thr-Lys-Pro-Asp-Trp	Lys-Thr-Lys-Pro-Asp-Trp	Lys-Thr-Lys-Pro-Asp-Trp	2131
Lys-Thr-Lys-Pro-Asp-Arg-Trp	Lys-Thr-Lys-Pro-Asp-Arg-Trp	Lys-Thr-Lys-Pro-Asp-Arg-Trp	2132
Lys-Thr-Lys-Pro-Asp-Phe-Trp	Lys-Thr-Lys-Pro-Asp-Phe-Trp	Lys-Thr-Lys-Pro-Asp-Phe-Trp	2133
Lys-Thr-Lys-Pro-Asp-Tyr-Trp	Lys-Thr-Lys-Pro-Asp-Tyr-Trp	Lys-Thr-Lys-Pro-Asp-Tyr-Trp	2134
Lys-Thr-Lys-Pro-Asp-His-Trp	Lys-Thr-Lys-Pro-Asp-His-Trp	Lys-Thr-Lys-Pro-Asp-His-Trp	2135
Lys-Thr-Lys-Pro-Asp-Pro-Trp	Lys-Thr-Lys-Pro-Asp-Pro-Trp	Lys-Thr-Lys-Pro-Asp-Pro-Trp	2136
Lys-Thr-Lys-Pro-Asp-Lys-Trp	Lys-Thr-Lys-Pro-Asp-Lys-Trp	Lys-Thr-Lys-Pro-Asp-Lys-Trp	2137
Lys-Thr-Lys-Pro-Trp-Trp	Lys-Thr-Lys-Pro-Trp-Trp	Lys-Thr-Lys-Pro-Trp-Trp	2138
Lys-Thr-Lys-Pro-Trp-Arg-Trp	Lys-Thr-Lys-Pro-Trp-Arg-Trp	Lys-Thr-Lys-Pro-Trp-Arg-Trp	2139
Lys-Thr-Lys-Pro-Trp-Phe-Trp	Lys-Thr-Lys-Pro-Trp-Phe-Trp	Lys-Thr-Lys-Pro-Trp-Phe-Trp	2140
Lys-Thr-Lys-Pro-Trp-Tyr-Trp	Lys-Thr-Lys-Pro-Trp-Tyr-Trp	Lys-Thr-Lys-Pro-Trp-Tyr-Trp	2141
Lys-Thr-Lys-Pro-Trp-His-Trp	Lys-Thr-Lys-Pro-Trp-His-Trp	Lys-Thr-Lys-Pro-Trp-His-Trp	2142
Lys-Thr-Lys-Pro-Trp-Pro-Trp	Lys-Thr-Lys-Pro-Trp-Pro-Trp	Lys-Thr-Lys-Pro-Trp-Pro-Trp	2143

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Lys-Thr-Lys-Pro-Trp-Lys-Trp	Lys-Thr-Lys-Pro-Trp-Lys-Trp	Lys-Thr-Lys-Pro-Trp-Lys-Trp	2144
Lys-Thr-Lys-Pro-Gln-Trp	Lys-Thr-Lys-Pro-Gln-Trp	Lys-Thr-Lys-Pro-Gln-Trp	2145
Lys-Thr-Lys-Pro-Gln-Arg-Trp	Lys-Thr-Lys-Pro-Gln-Arg-Trp	Lys-Thr-Lys-Pro-Gln-Arg-Trp	2146
Lys-Thr-Lys-Pro-Gln-Phe-Trp	Lys-Thr-Lys-Pro-Gln-Phe-Trp	Lys-Thr-Lys-Pro-Gln-Phe-Trp	2147
Lys-Thr-Lys-Pro-Gln-Tyr-Trp	Lys-Thr-Lys-Pro-Gln-Tyr-Trp	Lys-Thr-Lys-Pro-Gln-Tyr-Trp	2148
Lys-Thr-Lys-Pro-Gln-His-Trp	Lys-Thr-Lys-Pro-Gln-His-Trp	Lys-Thr-Lys-Pro-Gln-His-Trp	2149
Lys-Thr-Lys-Pro-Gln-Pro-Trp	Lys-Thr-Lys-Pro-Gln-Pro-Trp	Lys-Thr-Lys-Pro-Gln-Pro-Trp	2150
Lys-Thr-Lys-Pro-Gln-Lys-Trp	Lys-Thr-Lys-Pro-Gln-Lys-Trp	Lys-Thr-Lys-Pro-Gln-Lys-Trp	2151
Lys-Thr-Lys-Pro-Asn-Trp	Lys-Thr-Lys-Pro-Asn-Trp	Lys-Thr-Lys-Pro-Asn-Trp	2152
Lys-Thr-Lys-Pro-Asn-Arg-Trp	Lys-Thr-Lys-Pro-Asn-Arg-Trp	Lys-Thr-Lys-Pro-Asn-Arg-Trp	2153
Lys-Thr-Lys-Pro-Asn-Phe-Trp	Lys-Thr-Lys-Pro-Asn-Phe-Trp	Lys-Thr-Lys-Pro-Asn-Phe-Trp	2154
Lys-Thr-Lys-Pro-Asn-Tyr-Trp	Lys-Thr-Lys-Pro-Asn-Tyr-Trp	Lys-Thr-Lys-Pro-Asn-Tyr-Trp	2155
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Thr-Lys-Pro-Asp-Arg-Phe	Thr-Lys-Pro-Asp-Arg-Phe	Thr-Lys-Pro-Asp-Arg-Phe	2243
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Thr-Lys-Pro-Asp-Pro-Phe	Thr-Lys-Pro-Asp-Pro-Phe	Thr-Lys-Pro-Asp-Pro-Phe	2247
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Met-Thr-Lys-Pro-Trp-Pro-Phe	Met-Thr-Lys-Pro-Trp-Pro-Phe	Met-Thr-Lys-Pro-Trp-Pro-Phe	2309
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Met-Thr-Lys-Pro-Arg-His-Phe	Met-Thr-Lys-Pro-Arg-His-Phe	Met-Thr-Lys-Pro-Arg-His-Phe	2336
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Met(O)-Thr-Lys-Pro-Phe-Phe	Met(O)-Thr-Lys-Pro-Phe-Phe	Met(O)-Thr-Lys-Pro-Phe-Phe	2341
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Met(O)-Thr-Lys-Pro-His-Phe	Met(O)-Thr-Lys-Pro-His-Phe	Met(O)-Thr-Lys-Pro-His-Phe	2344
Met(O)-Thr-Lys-Pro-Lys-Phe	Met(O)-Thr-Lys-Pro-Lys-Phe	Met(O)-Thr-Lys-Pro-Lys-Phe	2345
Met(O)-Thr-Lys-Pro-Gly-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe	2346
Met(O)-Thr-Lys-Pro-Gly-Arg-Phe	Met(O)-Thr-Lys-Pro-Gly-Arg-Phe	Met(O)-Thr-Lys-Pro-Gly-Arg-Phe	2347
Met(O)-Thr-Lys-Pro-Gly-Phe-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe-Phe	Met(O)-Thr-Lys-Pro-Gly-Phe-Phe	2348
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Met(O)-Thr-Lys-Pro-Gly-His-Phe	Met(O)-Thr-Lys-Pro-Gly-His-Phe	Met(O)-Thr-Lys-Pro-Gly-His-Phe	2350
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Met(O)-Thr-Lys-Pro-Asp-Phe	Met(O)-Thr-Lys-Pro-Asp-Phe	Met(O)-Thr-Lys-Pro-Asp-Phe	2353
Met(O)-Thr-Lys-Pro-Asp-Arg-Phe	Met(O)-Thr-Lys-Pro-Asp-Arg-Phe	Met(O)-Thr-Lys-Pro-Asp-Arg-Phe	2354
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Met(O)-Thr-Lys-Pro-Asp-His-Phe	Met(O)-Thr-Lys-Pro-Asp-His-Phe	Met(O)-Thr-Lys-Pro-Asp-His-Phe	2357
Met(O)-Thr-Lys-Pro-Asp-Pro-Phe	Met(O)-Thr-Lys-Pro-Asp-Pro-Phe	Met(O)-Thr-Lys-Pro-Asp-Pro-Phe	2358
Met(O)-Thr-Lys-Pro-Asp-Lys-Ph e	Met(O)-Thr-Lys-Pro-Asp-Lys-Phe	Met(O)-Thr-Lys-Pro-Asp-Lys-Phe	2359
Met(O)-Thr-Lys-Pro-Trp-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe	2360
Met(O)-Thr-Lys-Pro-Trp-Arg-Phe	Met(O)-Thr-Lys-Pro-Trp-Arg-Phe	Met(O)-Thr-Lys-Pro-Trp-Arg-Phe	2361
Met(O)-Thr-Lys-Pro-Trp-Phe-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe-Phe	Met(O)-Thr-Lys-Pro-Trp-Phe-Phe	2362
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Met(O)-Thr-Lys-Pro-Gln-His-Phe	Met(O)-Thr-Lys-Pro-Gln-His-Phe	Met(O)-Thr-Lys-Pro-Gln-His-Phe	2371
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Met(O)-Thr-Lys-Pro-Asn-Phe	Met(O)-Thr-Lys-Pro-Asn-Phe	Met(O)-Thr-Lys-Pro-Asn-Phe	2374
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Met(O)-Thr-Lys-Pro-Asn-Phe-Ph e	Met(O)-Thr-Lys-Pro-Asn-Phe-Phe	Met(O)-Thr-Lys-Pro-Asn-Phe-Phe	2376
Met(O)-Thr-Lys-Pro-Asn-Tyr-Phe	Met(O)-Thr-Lys-Pro-Asn-Tyr-Phe	Met(O)-Thr-Lys-Pro-Asn-Tyr-Phe	2377
Met(O)-Thr-Lys-Pro-Asn-His-Phe	Met(O)-Thr-Lys-Pro-Asn-His-Phe	Met(O)-Thr-Lys-Pro-Asn-His-Phe	2378
Met(O)-Thr-Lys-Pro-Asn-Pro-Phe	Met(O)-Thr-Lys-Pro-Asn-Pro-Phe	Met(O)-Thr-Lys-Pro-Asn-Pro-Phe	2379
Met(O)-Thr-Lys-Pro-Asn-Lys-Ph e	Met(O)-Thr-Lys-Pro-Asn-Lys-Phe	Met(O)-Thr-Lys-Pro-Asn-Lys-Phe	2380
Met(O)-Thr-Lys-Pro-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe	2381
Met(O)-Thr-Lys-Pro-Tyr-Arg-Phe	Met(O)-Thr-Lys-Pro-Tyr-Arg-Phe	Met(O)-Thr-Lys-Pro-Tyr-Arg-Phe	2382
Met(O)-Thr-Lys-Pro-Tyr-Phe-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe-Phe	Met(O)-Thr-Lys-Pro-Tyr-Phe-Phe	2383
Met(O)-Thr-Lys-Pro-Tyr-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Phe	Met(O)-Thr-Lys-Pro-Tyr-Tyr-Phe	2384
Met(O)-Thr-Lys-Pro-Tyr-His-Phe	Met(O)-Thr-Lys-Pro-Tyr-His-Phe	Met(O)-Thr-Lys-Pro-Tyr-His-Phe	2385
Met(O)-Thr-Lys-Pro-Tyr-Pro-Phe	Met(O)-Thr-Lys-Pro-Tyr-Pro-Phe	Met(O)-Thr-Lys-Pro-Tyr-Pro-Phe	2386
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Met(O)-Thr-Lys-Pro-Arg-Phe	Met(O)-Thr-Lys-Pro-Arg-Phe	Met(O)-Thr-Lys-Pro-Arg-Phe	2388
Met(O)-Thr-Lys-Pro-Arg-Arg-Ph e	Met(O)-Thr-Lys-Pro-Arg-Arg-Phe	Met(O)-Thr-Lys-Pro-Arg-Arg-Phe	2389
Met(O)-Thr-Lys-Pro-Arg-Phe-Ph e	Met(O)-Thr-Lys-Pro-Arg-Phe-Phe	Met(O)-Thr-Lys-Pro-Arg-Phe-Phe	2390
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Met(O)-Thr-Lys-Pro-Arg-Pro-Phe	Met(O)-Thr-Lys-Pro-Arg-Pro-Phe	Met(O)-Thr-Lys-Pro-Arg-Pro-Phe	2393
Met(O)-Thr-Lys-Pro-Arg-Lys-Phe	Met(O)-Thr-Lys-Pro-Arg-Lys-Phe	Met(O)-Thr-Lys-Pro-Arg-Lys-Phe	2394
Thr-Thr-Lys-Pro-Phe	Thr-Thr-Lys-Pro-Phe	Thr-Thr-Lys-Pro-Phe	2395
Thr-Thr-Lys-Pro-Arg-Phe	Thr-Thr-Lys-Pro-Arg-Phe	Thr-Thr-Lys-Pro-Arg-Phe	2396
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Thr-Thr-Lys-Pro-Gly-Tyr-Phe	Thr-Thr-Lys-Pro-Gly-Tyr-Phe	Thr-Thr-Lys-Pro-Gly-Tyr-Phe	2405
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Thr-Thr-Lys-Pro-Asp-Phe	Thr-Thr-Lys-Pro-Asp-Phe	Thr-Thr-Lys-Pro-Asp-Phe	2409
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Thr-Thr-Lys-Pro-Asp-Lys-Phe	Thr-Thr-Lys-Pro-Asp-Lys-Phe	Thr-Thr-Lys-Pro-Asp-Lys-Phe	2415
Thr-Thr-Lys-Pro-Trp-Phe	Thr-Thr-Lys-Pro-Trp-Phe	Thr-Thr-Lys-Pro-Trp-Phe	2416
Thr-Thr-Lys-Pro-Trp-Arg-Phe	Thr-Thr-Lys-Pro-Trp-Arg-Phe	Thr-Thr-Lys-Pro-Trp-Arg-Phe	2417
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Thr-Thr-Lys-Pro-Trp-His-Phe	Thr-Thr-Lys-Pro-Trp-His-Phe	Thr-Thr-Lys-Pro-Trp-His-Phe	2420
Thr-Thr-Lys-Pro-Trp-Pro-Phe	Thr-Thr-Lys-Pro-Trp-Pro-Phe	Thr-Thr-Lys-Pro-Trp-Pro-Phe	2421
Thr-Thr-Lys-Pro-Trp-Lys-Phe	Thr-Thr-Lys-Pro-Trp-Lys-Phe	Thr-Thr-Lys-Pro-Trp-Lys-Phe	2422
Thr-Thr-Lys-Pro-Gln-Phe	Thr-Thr-Lys-Pro-Gln-Phe	Thr-Thr-Lys-Pro-Gln-Phe	2423
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Thr-Thr-Lys-Pro-Gln-Pro-Phe	Thr-Thr-Lys-Pro-Gln-Pro-Phe	Thr-Thr-Lys-Pro-Gln-Pro-Phe	2428
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Thr-Thr-Lys-Pro-Asn-Phe	Thr-Thr-Lys-Pro-Asn-Phe	Thr-Thr-Lys-Pro-Asn-Phe	2430
Thr-Thr-Lys-Pro-Asn-Arg-Phe	Thr-Thr-Lys-Pro-Asn-Arg-Phe	Thr-Thr-Lys-Pro-Asn-Arg-Phe	2431
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His-Thr-Lys-Pro-Gln-His-Phe	His-Thr-Lys-Pro-Gln-His-Phe	His-Thr-Lys-Pro-Gln-His-Phe	2539
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His-Thr-Lys-Pro-Gln-Lys-Phe	His-Thr-Lys-Pro-Gln-Lys-Phe	His-Thr-Lys-Pro-Gln-Lys-Phe	2541
His-Thr-Lys-Pro-Asn-Phe	His-Thr-Lys-Pro-Asn-Phe	His-Thr-Lys-Pro-Asn-Phe	2542
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His-Thr-Lys-Pro-Asn-His-Phe	His-Thr-Lys-Pro-Asn-His-Phe	His-Thr-Lys-Pro-Asn-His-Phe	2546
His-Thr-Lys-Pro-Asn-Pro-Phe	His-Thr-Lys-Pro-Asn-Pro-Phe	His-Thr-Lys-Pro-Asn-Pro-Phe	2547
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His-Thr-Lys-Pro-Arg-Phe-Phe	His-Thr-Lys-Pro-Arg-Phe-Phe	His-Thr-Lys-Pro-Arg-Phe-Phe	2558
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His-Thr-Lys-Pro-Arg-Pro-Phe	His-Thr-Lys-Pro-Arg-Pro-Phe	His-Thr-Lys-Pro-Arg-Pro-Phe	2561
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Lys-Thr-Lys-Pro-Asp-Phe	Lys-Thr-Lys-Pro-Asp-Phe	Lys-Thr-Lys-Pro-Asp-Phe	2577
Lys-Thr-Lys-Pro-Asp-Arg-Phe	Lys-Thr-Lys-Pro-Asp-Arg-Phe	Lys-Thr-Lys-Pro-Asp-Arg-Phe	2578
Lys-Thr-Lys-Pro-Asp-Phe-Phe	Lys-Thr-Lys-Pro-Asp-Phe-Phe	Lys-Thr-Lys-Pro-Asp-Phe-Phe	2579
Lys-Thr-Lys-Pro-Asp-Tyr-Phe	Lys-Thr-Lys-Pro-Asp-Tyr-Phe	Lys-Thr-Lys-Pro-Asp-Tyr-Phe	2580
Lys-Thr-Lys-Pro-Asp-His-Phe	Lys-Thr-Lys-Pro-Asp-His-Phe	Lys-Thr-Lys-Pro-Asp-His-Phe	2581
Lys-Thr-Lys-Pro-Asp-Pro-Phe	Lys-Thr-Lys-Pro-Asp-Pro-Phe	Lys-Thr-Lys-Pro-Asp-Pro-Phe	2582
Lys-Thr-Lys-Pro-Asp-Lys-Phe	Lys-Thr-Lys-Pro-Asp-Lys-Phe	Lys-Thr-Lys-Pro-Asp-Lys-Phe	2583
Lys-Thr-Lys-Pro-Trp-Phe	Lys-Thr-Lys-Pro-Trp-Phe	Lys-Thr-Lys-Pro-Trp-Phe	2584
Lys-Thr-Lys-Pro-Trp-Arg-Phe	Lys-Thr-Lys-Pro-Trp-Arg-Phe	Lys-Thr-Lys-Pro-Trp-Arg-Phe	2585
Lys-Thr-Lys-Pro-Trp-Phe-Phe	Lys-Thr-Lys-Pro-Trp-Phe-Phe	Lys-Thr-Lys-Pro-Trp-Phe-Phe	2586
Lys-Thr-Lys-Pro-Trp-Tyr-Phe	Lys-Thr-Lys-Pro-Trp-Tyr-Phe	Lys-Thr-Lys-Pro-Trp-Tyr-Phe	2587
Lys-Thr-Lys-Pro-Trp-His-Phe	Lys-Thr-Lys-Pro-Trp-His-Phe	Lys-Thr-Lys-Pro-Trp-His-Phe	2588
Lys-Thr-Lys-Pro-Trp-Pro-Phe	Lys-Thr-Lys-Pro-Trp-Pro-Phe	Lys-Thr-Lys-Pro-Trp-Pro-Phe	2589
Lys-Thr-Lys-Pro-Trp-Lys-Phe	Lys-Thr-Lys-Pro-Trp-Lys-Phe	Lys-Thr-Lys-Pro-Trp-Lys-Phe	2590
Lys-Thr-Lys-Pro-Gln-Phe	Lys-Thr-Lys-Pro-Gln-Phe	Lys-Thr-Lys-Pro-Gln-Phe	2591
Lys-Thr-Lys-Pro-Gln-Arg-Phe	Lys-Thr-Lys-Pro-Gln-Arg-Phe	Lys-Thr-Lys-Pro-Gln-Arg-Phe	2592
Lys-Thr-Lys-Pro-Gln-Phe-Phe	Lys-Thr-Lys-Pro-Gln-Phe-Phe	Lys-Thr-Lys-Pro-Gln-Phe-Phe	2593
Lys-Thr-Lys-Pro-Gln-Tyr-Phe	Lys-Thr-Lys-Pro-Gln-Tyr-Phe	Lys-Thr-Lys-Pro-Gln-Tyr-Phe	2594
Lys-Thr-Lys-Pro-Gln-His-Phe	Lys-Thr-Lys-Pro-Gln-His-Phe	Lys-Thr-Lys-Pro-Gln-His-Phe	2595
Lys-Thr-Lys-Pro-Gln-Pro-Phe	Lys-Thr-Lys-Pro-Gln-Pro-Phe	Lys-Thr-Lys-Pro-Gln-Pro-Phe	2596
Lys-Thr-Lys-Pro-Gln-Lys-Phe	Lys-Thr-Lys-Pro-Gln-Lys-Phe	Lys-Thr-Lys-Pro-Gln-Lys-Phe	2597
Lys-Thr-Lys-Pro-Asn-Phe	Lys-Thr-Lys-Pro-Asn-Phe	Lys-Thr-Lys-Pro-Asn-Phe	2598
Lys-Thr-Lys-Pro-Asn-Arg-Phe	Lys-Thr-Lys-Pro-Asn-Arg-Phe	Lys-Thr-Lys-Pro-Asn-Arg-Phe	2599
Lys-Thr-Lys-Pro-Asn-Phe-Phe	Lys-Thr-Lys-Pro-Asn-Phe-Phe	Lys-Thr-Lys-Pro-Asn-Phe-Phe	2600
Lys-Thr-Lys-Pro-Asn-Tyr-Phe	Lys-Thr-Lys-Pro-Asn-Tyr-Phe	Lys-Thr-Lys-Pro-Asn-Tyr-Phe	2601
Lys-Thr-Lys-Pro-Asn-His-Phe	Lys-Thr-Lys-Pro-Asn-His-Phe	Lys-Thr-Lys-Pro-Asn-His-Phe	2602
Lys-Thr-Lys-Pro-Asn-Pro-Phe	Lys-Thr-Lys-Pro-Asn-Pro-Phe	Lys-Thr-Lys-Pro-Asn-Pro-Phe	2603
Lys-Thr-Lys-Pro-Asn-Lys-Phe	Lys-Thr-Lys-Pro-Asn-Lys-Phe	Lys-Thr-Lys-Pro-Asn-Lys-Phe	2604
Lys-Thr-Lys-Pro-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Phe	2605
Lys-Thr-Lys-Pro-Tyr-Arg-Phe	Lys-Thr-Lys-Pro-Tyr-Arg-Phe	Lys-Thr-Lys-Pro-Tyr-Arg-Phe	2606

[0097]

Lys-Thr-Lys-Pro-Tyr-Phe-Phe	Lys-Thr-Lys-Pro-Tyr-Phe-Phe	Lys-Thr-Lys-Pro-Tyr-Phe-Phe	2607
Lys-Thr-Lys-Pro-Tyr-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Tyr-Phe	Lys-Thr-Lys-Pro-Tyr-Tyr-Phe	2608
Lys-Thr-Lys-Pro-Tyr-His-Phe	Lys-Thr-Lys-Pro-Tyr-His-Phe	Lys-Thr-Lys-Pro-Tyr-His-Phe	2609
Lys-Thr-Lys-Pro-Tyr-Pro-Phe	Lys-Thr-Lys-Pro-Tyr-Pro-Phe	Lys-Thr-Lys-Pro-Tyr-Pro-Phe	2610
Lys-Thr-Lys-Pro-Tyr-Lys-Phe	Lys-Thr-Lys-Pro-Tyr-Lys-Phe	Lys-Thr-Lys-Pro-Tyr-Lys-Phe	2611
Lys-Thr-Lys-Pro-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Phe	2612
Lys-Thr-Lys-Pro-Arg-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Arg-Phe	Lys-Thr-Lys-Pro-Arg-Arg-Phe	2613
Lys-Thr-Lys-Pro-Arg-Phe-Phe	Lys-Thr-Lys-Pro-Arg-Phe-Phe	Lys-Thr-Lys-Pro-Arg-Phe-Phe	2614
Lys-Thr-Lys-Pro-Arg-Tyr-Phe	Lys-Thr-Lys-Pro-Arg-Tyr-Phe	Lys-Thr-Lys-Pro-Arg-Tyr-Phe	2615
Lys-Thr-Lys-Pro-Arg-His-Phe	Lys-Thr-Lys-Pro-Arg-His-Phe	Lys-Thr-Lys-Pro-Arg-His-Phe	2616
Lys-Thr-Lys-Pro-Arg-Pro-Phe	Lys-Thr-Lys-Pro-Arg-Pro-Phe	Lys-Thr-Lys-Pro-Arg-Pro-Phe	2617
Lys-Thr-Lys-Pro-Arg-Lys-Phe	Lys-Thr-Lys-Pro-Arg-Lys-Phe	Lys-Thr-Lys-Pro-Arg-Lys-Phe	2618
Gly-Thr-Lys-Pro-Phe	Gly-Thr-Lys-Pro-Phe	Gly-Thr-Lys-Pro-Phe	2619
Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	2620
Gly-Thr-Lys-Pro-Phe-Phe	Gly-Thr-Lys-Pro-Phe-Phe	Gly-Thr-Lys-Pro-Phe-Phe	2621
Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	2622
Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	2623
Gly-Thr-Lys-Pro-His-Phe	Gly-Thr-Lys-Pro-His-Phe	Gly-Thr-Lys-Pro-His-Phe	2624
Gly-Thr-Lys-Pro-Lys-Phe	Gly-Thr-Lys-Pro-Lys-Phe	Gly-Thr-Lys-Pro-Lys-Phe	2625
Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	Gly-Thr-Lys-Pro-Gly-Phe	2626
Gly-Thr-Lys-Pro-Gly-Arg-Phe	Gly-Thr-Lys-Pro-Gly-Arg-Phe	Gly-Thr-Lys-Pro-Gly-Arg-Phe	2627
Gly-Thr-Lys-Pro-Gly-Phe-Phe	Gly-Thr-Lys-Pro-Gly-Phe-Phe	Gly-Thr-Lys-Pro-Gly-Phe-Phe	2628
Gly-Thr-Lys-Pro-Gly-Tyr-Phe	Gly-Thr-Lys-Pro-Gly-Tyr-Phe	Gly-Thr-Lys-Pro-Gly-Tyr-Phe	2629
Gly-Thr-Lys-Pro-Gly-His-Phe	Gly-Thr-Lys-Pro-Gly-His-Phe	Gly-Thr-Lys-Pro-Gly-His-Phe	2630
Gly-Thr-Lys-Pro-Gly-Pro-Phe	Gly-Thr-Lys-Pro-Gly-Pro-Phe	Gly-Thr-Lys-Pro-Gly-Pro-Phe	2631
Gly-Thr-Lys-Pro-Gly-Lys-Phe	Gly-Thr-Lys-Pro-Gly-Lys-Phe	Gly-Thr-Lys-Pro-Gly-Lys-Phe	2632
Gly-Thr-Lys-Pro-Asp-Phe	Gly-Thr-Lys-Pro-Asp-Phe	Gly-Thr-Lys-Pro-Asp-Phe	2633
Gly-Thr-Lys-Pro-Asp-Arg-Phe	Gly-Thr-Lys-Pro-Asp-Arg-Phe	Gly-Thr-Lys-Pro-Asp-Arg-Phe	2634
Gly-Thr-Lys-Pro-Asp-Phe-Phe	Gly-Thr-Lys-Pro-Asp-Phe-Phe	Gly-Thr-Lys-Pro-Asp-Phe-Phe	2635
Gly-Thr-Lys-Pro-Asp-Tyr-Phe	Gly-Thr-Lys-Pro-Asp-Tyr-Phe	Gly-Thr-Lys-Pro-Asp-Tyr-Phe	2636
Gly-Thr-Lys-Pro-Asp-His-Phe	Gly-Thr-Lys-Pro-Asp-His-Phe	Gly-Thr-Lys-Pro-Asp-His-Phe	2637
Gly-Thr-Lys-Pro-Asp-Pro-Phe	Gly-Thr-Lys-Pro-Asp-Pro-Phe	Gly-Thr-Lys-Pro-Asp-Pro-Phe	2638
Gly-Thr-Lys-Pro-Asp-Lys-Phe	Gly-Thr-Lys-Pro-Asp-Lys-Phe	Gly-Thr-Lys-Pro-Asp-Lys-Phe	2639
Gly-Thr-Lys-Pro-Trp-Phe	Gly-Thr-Lys-Pro-Trp-Phe	Gly-Thr-Lys-Pro-Trp-Phe	2640
Gly-Thr-Lys-Pro-Trp-Arg-Phe	Gly-Thr-Lys-Pro-Trp-Arg-Phe	Gly-Thr-Lys-Pro-Trp-Arg-Phe	2641
Gly-Thr-Lys-Pro-Trp-Phe-Phe	Gly-Thr-Lys-Pro-Trp-Phe-Phe	Gly-Thr-Lys-Pro-Trp-Phe-Phe	2642
Gly-Thr-Lys-Pro-Trp-Tyr-Phe	Gly-Thr-Lys-Pro-Trp-Tyr-Phe	Gly-Thr-Lys-Pro-Trp-Tyr-Phe	2643
Gly-Thr-Lys-Pro-Trp-His-Phe	Gly-Thr-Lys-Pro-Trp-His-Phe	Gly-Thr-Lys-Pro-Trp-His-Phe	2644
Gly-Thr-Lys-Pro-Trp-Pro-Phe	Gly-Thr-Lys-Pro-Trp-Pro-Phe	Gly-Thr-Lys-Pro-Trp-Pro-Phe	2645
Gly-Thr-Lys-Pro-Trp-Lys-Phe	Gly-Thr-Lys-Pro-Trp-Lys-Phe	Gly-Thr-Lys-Pro-Trp-Lys-Phe	2646
Gly-Thr-Lys-Pro-Gln-Phe	Gly-Thr-Lys-Pro-Gln-Phe	Gly-Thr-Lys-Pro-Gln-Phe	2647
Gly-Thr-Lys-Pro-Gln-Arg-Phe	Gly-Thr-Lys-Pro-Gln-Arg-Phe	Gly-Thr-Lys-Pro-Gln-Arg-Phe	2648
Gly-Thr-Lys-Pro-Gln-Phe-Phe	Gly-Thr-Lys-Pro-Gln-Phe-Phe	Gly-Thr-Lys-Pro-Gln-Phe-Phe	2649

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Gly-Thr-Lys-Pro-Gln-Tyr-Phe	Gly-Thr-Lys-Pro-Gln-Tyr-Phe	Gly-Thr-Lys-Pro-Gln-Tyr-Phe	2650
Gly-Thr-Lys-Pro-Gln-His-Phe	Gly-Thr-Lys-Pro-Gln-His-Phe	Gly-Thr-Lys-Pro-Gln-His-Phe	2651
Gly-Thr-Lys-Pro-Gln-Pro-Phe	Gly-Thr-Lys-Pro-Gln-Pro-Phe	Gly-Thr-Lys-Pro-Gln-Pro-Phe	2652
Gly-Thr-Lys-Pro-Gln-Lys-Phe	Gly-Thr-Lys-Pro-Gln-Lys-Phe	Gly-Thr-Lys-Pro-Gln-Lys-Phe	2653
Gly-Thr-Lys-Pro-Asn-Phe	Gly-Thr-Lys-Pro-Asn-Phe	Gly-Thr-Lys-Pro-Asn-Phe	2654
Gly-Thr-Lys-Pro-Asn-Arg-Phe	Gly-Thr-Lys-Pro-Asn-Arg-Phe	Gly-Thr-Lys-Pro-Asn-Arg-Phe	2655
Gly-Thr-Lys-Pro-Asn-Phe-Phe	Gly-Thr-Lys-Pro-Asn-Phe-Phe	Gly-Thr-Lys-Pro-Asn-Phe-Phe	2656
Gly-Thr-Lys-Pro-Asn-Tyr-Phe	Gly-Thr-Lys-Pro-Asn-Tyr-Phe	Gly-Thr-Lys-Pro-Asn-Tyr-Phe	2657
Gly-Thr-Lys-Pro-Asn-His-Phe	Gly-Thr-Lys-Pro-Asn-His-Phe	Gly-Thr-Lys-Pro-Asn-His-Phe	2658
Gly-Thr-Lys-Pro-Asn-Pro-Phe	Gly-Thr-Lys-Pro-Asn-Pro-Phe	Gly-Thr-Lys-Pro-Asn-Pro-Phe	2659
Gly-Thr-Lys-Pro-Asn-Lys-Phe	Gly-Thr-Lys-Pro-Asn-Lys-Phe	Gly-Thr-Lys-Pro-Asn-Lys-Phe	2660
Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Phe	2661
Gly-Thr-Lys-Pro-Tyr-Arg-Phe	Gly-Thr-Lys-Pro-Tyr-Arg-Phe	Gly-Thr-Lys-Pro-Tyr-Arg-Phe	2662
Gly-Thr-Lys-Pro-Tyr-Phe-Phe	Gly-Thr-Lys-Pro-Tyr-Phe-Phe	Gly-Thr-Lys-Pro-Tyr-Phe-Phe	2663
Gly-Thr-Lys-Pro-Tyr-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Tyr-Phe	Gly-Thr-Lys-Pro-Tyr-Tyr-Phe	2664
Gly-Thr-Lys-Pro-Tyr-His-Phe	Gly-Thr-Lys-Pro-Tyr-His-Phe	Gly-Thr-Lys-Pro-Tyr-His-Phe	2665
Gly-Thr-Lys-Pro-Tyr-Pro-Phe	Gly-Thr-Lys-Pro-Tyr-Pro-Phe	Gly-Thr-Lys-Pro-Tyr-Pro-Phe	2666
Gly-Thr-Lys-Pro-Tyr-Lys-Phe	Gly-Thr-Lys-Pro-Tyr-Lys-Phe	Gly-Thr-Lys-Pro-Tyr-Lys-Phe	2667
Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Phe	2668
Gly-Thr-Lys-Pro-Arg-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Arg-Phe	Gly-Thr-Lys-Pro-Arg-Arg-Phe	2669
Gly-Thr-Lys-Pro-Arg-Phe-Phe	Gly-Thr-Lys-Pro-Arg-Phe-Phe	Gly-Thr-Lys-Pro-Arg-Phe-Phe	2670
Gly-Thr-Lys-Pro-Arg-Tyr-Phe	Gly-Thr-Lys-Pro-Arg-Tyr-Phe	Gly-Thr-Lys-Pro-Arg-Tyr-Phe	2671
Gly-Thr-Lys-Pro-Arg-His-Phe	Gly-Thr-Lys-Pro-Arg-His-Phe	Gly-Thr-Lys-Pro-Arg-His-Phe	2672
Gly-Thr-Lys-Pro-Arg-Pro-Phe	Gly-Thr-Lys-Pro-Arg-Pro-Phe	Gly-Thr-Lys-Pro-Arg-Pro-Phe	2673
Gly-Thr-Lys-Pro-Arg-Lys-Phe	Gly-Thr-Lys-Pro-Arg-Lys-Phe	Gly-Thr-Lys-Pro-Arg-Lys-Phe	2674

附图说明

[0099] 图1示出Arg-Pro-Gly-Pro(SEQ ID NO:2676)四肽合成的图；

[0100] 图2示出Pro-Arg-Pro-Gly-Pro(SEQ ID NO:2675)五肽合成的图；

[0101] 图3示出Pro-Gly-Pro(SEQ ID NO:2677)三肽合成的图；

[0102] 图4示出Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)六肽合成的图；

[0103] 图5示出Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6)五肽合成的图；

[0104] 图6示出Thr-Lys(SEQ ID NO:2678)二肽合成的图；

[0105] 图7示出Thr-Lys-Pro-Phe(SEQ ID NO:2679)四肽合成的图；

具体实施方式

[0106] 以下为说明本发明的实施例。

[0107] 使用L-氨基酸通过溶液中的肽化学方法进行具有通式A-Thr-Lys-Pro-B-C-D-X的肽合成。通过肽链的逐步延伸,以及使用混合酸酐法的片段缩合、添加1-羟基苯并三唑作为辅助亲核试剂的碳二亚胺法、活化酯法和混合酸酐法进行肽合成。分离并表征所有中间体和最产物。使用真空蒸发器在40℃下实施溶液的蒸发。在没有校正的情况下给出用伯蒂乌斯设备(Boethius apparatus)测定的熔点。通过TLC在Silufol硅胶涂布板(Czech Republic)上试验获得的化合物的特性。通过UV光使用茚三酮、巴顿试剂(Barton'

sreagent)、帕乌试剂(Pauly reagent)、赖因德尔-霍佩试剂(Reindel-Hoppe reagent)和邻联甲苯胺在氯环境中检测物质。通过AI-EPO旋光计测定旋光率。通过高效液相色谱(HPLC)测试肽同源性,并通过质谱法确定肽结构。所有溶剂相应地无水。不校正熔点。

[0108] 还通过基因工程技术使用由已知的大肠杆菌实验室菌株工程化的宿主细胞,用已知商购可得的含编码靶标肽的核酸的质粒转化获得肽。

[0109] 实施例描述了肽合成。

[0110] 实施例1.Arg-Pro-Gly-Pro四肽的合成

[0111] 根据图1所示的图表进行四肽的合成。

[0112] 合成时,使用混合酸酐法、叠氮法和碳二亚胺法。将L-氨基酸的衍生物用于合成。使用转子蒸发器在40℃下实施溶液蒸发。在不校正的情况下给出用伯蒂乌斯设备测定的熔点。通过TLC在Silufol硅胶涂布板(Czech Republic)上试验获得的化合物的特性。通过用茚三酮和(或)邻联甲苯胺的溶液喷雾平板来检测物质。提供在以下溶剂体系中的色谱迁移率(Rf)值:丙酮:苯:乙酸(50:100:1)-(1);氯仿:甲醇(9:1)-(2);己烷:丙酮(3:2)-(3);丁醇:乙酸:水(4:1:1)-(4);丁醇:乙酸:吡啶:水(30:6:20:24)-(5);氯仿:甲醇:氨(6:4:1)-(6);苯:乙醇(8:2)-(7);乙酸乙酯:丙酮:50%乙酸:水(2:1:1)-(8);氯仿:甲醇(14:1)-(9);氯仿:甲醇:氨(8:1.75:0.25)-(10);氯仿:甲醇:氨(6.5:3.0:0.5)-(11)。

[0113] 通过AI-EPO旋光计测定旋光率。

[0114] 使用Carlo-Erba型号1106分析仪元素分析。

[0115] I.Boc-Pro-Gly-OEt.将8.3g(3.45mmol)Boc-Pro-OH溶解于50ml CH_2Cl_2,冷却降至5℃;然后,添加38.45mmol(5.38ml)TEA。将反应混合物冷却降至-25～-30℃。在该温度下,使用移液管添加38.45mmol(4.84ml)氯甲酸异丁酯。将反应混合物温度保持在-18～-20℃范围中20分钟。同时,5.9g(42.3mmol)1.1倍过量的在75ml氯仿中的HCl·H-Gly-Oet的溶液,包含5.92ml TEA。溶液冷却降至-25℃,并且在第一烧瓶中形成混合酸酐后,马上将其内含物倒入到醚溶液。在-10℃下温育反应混合物1小时,然后在4℃下在磁性搅拌器上搅拌12小时。蒸发反应混合物,然后添加250ml乙酸乙酯;然后,将乙酸乙酯溶液用25ml 0.1N HCl洗涤3次,用25ml H_2O洗涤3次,并用NaCl饱和溶液洗涤一次。经$MgSO_4$干燥有机层,过滤并蒸发。在真空下经P_2O_5/KOH和链烷烃干燥残渣。

[0116] 产量:10.2g(30.3mmol)78.83%

[0117] Rf-0.5(7);0.862(8)

[0118] 熔点68-70℃。

[0119] II.Boc-Pro-Gly-N_2H_3.将10.2g Boc-Pro-Gly-OEt(30.3mmol)溶解于80ml无水甲醇,并添加4倍过量的水合肼,即5.88ml(121.2mmol)。在磁性搅拌器上在室温下搅拌溶液12小时。蒸发反应混合物,然后用醚蒸发两次;然后,将醚(～5ml)倒入残渣,置于冰箱过夜(为更好结晶化,添加晶种(seeding agent))。过滤沉淀的晶体,使用过滤器用醚洗涤并在干燥器中干燥。

[0120] 产量:6.9g(20.79mmol)68.62%

[0121] Rf-0.284(7);0.474(8);0.189(9)

[0122] 熔点98-100℃。

[0123] III.Boc-Pro-Gly-Pro-OBzl.将58.4mmol(4倍过量)乙酸乙酯中的氯化氢添加到

在40ml DMF中含4.7g(14.6mmol)Boc-Pro-Gly-N_2H_3的溶液,冷却降至-20℃,即刻地,1.73ml(14.6mmol)新蒸馏的亚硝酸叔丁酯;然后,在-5℃下搅拌反应混合物30分钟。将反应混合物冷却降至-40℃,并添加冷却降至-10℃的8.2ml(58.4mmol)在4ml DMF中的TEA的溶液;当反应混合物的温度升至-20℃时,添加3.7g(15.3mmol)1.05倍过量的HCl·H-Pro-OBzl至20ml DMF和2.14ml TEA。然后,在磁性搅拌器上在4℃下搅拌24小时。蒸发反应混合物,并将残渣溶解于200mL乙酸乙酯,并用20ml H_2O洗涤2次,用20ml 10%$KHSO_4$溶液洗涤3次,用20ml H_2O洗涤3次,用20mL5%$NaHCO_3$洗涤3次,并用20ml H_2O洗涤3次。经$MgSO_4$干燥乙酸乙酯溶液。然后将其蒸发,并添加少量醚(~10mL)至残渣。然后,置于冰箱以便结晶化。为了更好的产物结晶化,添加晶种。过滤沉淀晶体并使用过滤器用少量醚洗涤。然后,在干燥器中将其干燥。

[0124] 产量:5.358g(11.65mmol)79.92%

[0125] Rf-0.326(7);0.947(8);0.390(9)

[0126] 熔点125-126℃。

[0127] $[\alpha]_D^{22}$=-101.18°(c=0.85;CH_3OH).

[0128] 元素分析:C 62.89(62.73);N 9.21(9.14);H 7.52(7.24)。

[0129] IV.TFA·H-Pro-Gly-Pro-OBzl.将5.358g(11.65mmol)Boc-Pro-Gly-Pro-OBzl溶解于29.13ml二氯甲烷中;然后,添加29.13mL TFA,在室温下温育45分钟,用无水乙醇蒸发2次,用苯蒸发2次,用醚蒸发2次,并溶解于苯;然后,倒入己烷。倾析己烷,并在真空下在干燥器中经KOH、P_2O_5和链烷烃干燥所得物质,同时更换干燥剂若干次。

[0130] 产量:4.63g(9.7mmol)98%

[0131] Rf-0.043(7);0.247(8);0.018(9)。

[0132] V.Boc-Arg(NO_2)-Pro-Gly-Pro-OBzl.将3.09g Boc-Arg(NO_2)-OH(9.7mmol)溶解于50mL THF和10mL DMF,添加2.07g(10.67mmol)DCC,冷却降至0℃,搅拌40分钟;然后,将TFA·H-Pro-Gly-Pro-OBzl溶液添加到50ml THF和4.46ml(9.7mmol)TEA。搅拌反应混合物三天。过滤掉DCM沉淀物;在真空下蒸发溶液;然后,将200ml已烷添加到残渣。于是,将所需产物作为油分离,将其溶解于500mL乙酸乙酯并用25ml 0.1N HCl洗涤3次,用25ml H_2O洗涤三次,并用NaCl饱和溶液洗涤一次。经$MgSO_4$干燥有机层,过滤并蒸发。残渣溶解于乙酸乙酯,并用干燥醚沉淀。过滤沉淀物并在真空下经P_2O_5/KOH和链烷烃干燥,同时更换干燥剂若干次。

[0133] 产量:4.76g(7.9mmol)85%

[0134] Rf-0.44(1);0.8(11)

[0135] 熔点108-110℃

[0136] $[\alpha]_D^{22}$=-77.8°(c=0.5;CH_3COOH)。

[0137] VI.Boc-Arg-Pro-Gly-Pro.将4.76g(6.5mmol)Boc-Arg(NO_2)-Pro-Gly-Pro-OBzl溶解于100ml甲醇;然后添加1ml 1N盐酸和4.67g催化剂,即在中性氧化铝上的10%氧化钯,实施在室温1atm.下在干燥氢气流中的氢化6小时。然后,过滤掉催化剂并用甲醇在过滤器上洗涤。蒸发收集的(pooled)滤液至干燥。用醚从无水甲醇中沉淀残渣。然后,将其在真空下干燥,同时更换干燥剂若干次。

[0138] 产量:4.23g(5.8mmol)89%

[0139] Rf-0.125(4);0.57(6);0.37(5)

[0140] 熔点123-125℃。

[0141] VII.Arg-Pro-Gly-Pro.将4.23g(5.8mmol)Boc-Arg-Pro-Gly-Pro-OH悬浮于10ml在二噁烷中的2N盐酸,并在室温下温育45分钟。然后,添加干燥醚,通过用干燥醚倾析洗涤沉淀物。用醚从无水甲醇再沉淀。将所得沉淀物溶解于7.5ml 30%乙醇,并施加到Amberlyst A-21(AcO^-形式)柱用于乙酸盐/盐酸盐交换。用200ml 30%乙醇洗脱肽,在真空下蒸发至干燥并有无水醚从甲醇沉淀。产量:3.69g(4.93mmol)85%

[0142] Rf-0.287(4);0.145(5);0.338(14)

[0143] 熔点120-122℃

[0144] HPLC结果:柱:Supercosil ABZ Plus,尺寸4.6×250mm;流速1mL/min;洗脱液A:$NH_4H_2PO_4$+H_3PO_4(50mM,pH2.8);洗脱液B:MeOH

[0145] 梯度:0-20min(0-40%B);保留时间21.21min。

[0146] Rf-0.24(6)

[0147] 熔点=151℃

[0148] $[\alpha]_D^{22}$=-65.0°(c=0.5CH_3COOH)

[0149] HPLC结果:柱:Zorbax ODS d=4.6mm;t=35℃

[0150] 流速1mL/min;A=50mM $NH_4H_2PO_4$(pH 2.5);B=A+MeOH(1:1);10-60%B(25min内)。保留时间16.5min。

[0151] 实施例2.Pro-Arg-Pro-Gly-Pro五肽的合成

[0152] 通过肽化学的经典方法使用天然L-氨基酸根据图2所示的图表进行肽合成。

[0153] 首先,生产Pro-Gly-Pro三肽;然后,通过从N末端逐步组装肽链获得五肽。合成时,使用混合酸酐法、叠氮法和碳二亚胺法。

[0154] 提供以下溶剂体系的色谱迁移率(Rf)值:丁醇:乙酸:水(4:1:1)-(1);氯仿:甲醇:氨(6:4:1)-(2);丙酮:苯:乙酸(50:100:1)-(3);氯仿:甲醇(9:1)-(4);己烷:丙酮(3:2)-(5);丁醇:乙酸:吡啶:水(30:6:20:24)-(6);氯仿:甲醇(14:1)-(7)。

[0155] I.Boc-Pro-Gly-OEt.将8.3g(38.45mmol)Boc-Pro溶解于50mlCH_2Cl_2,冷却降至+5℃;并添加38.45mmol(5.38ml)TEA。将反应混合物冷却降至-25～-30℃。在该温度下,使用移液管添加38.45mmol(4.84ml)氯甲酸异丁酯。将反应混合物温度保持在-18～-20℃范围中20分钟。同时,5.9g(42.3mmol)1.1倍过量的在75ml氯仿中的HCl·H-Gly-Oet的溶液,包含5.92ml TEA。溶液冷却降至-25℃,并且在第一烧瓶中形成混合酸酐后,马上将其内含物倒入到醚溶液。在-10℃下温育反应混合物1小时,然后在4℃下在磁性搅拌器上搅拌12小时。蒸发反应混合物,并向其添加250ml乙酸乙酯;将乙酸乙酯溶液用25ml 0.1N HCl洗涤3次,用25ml H_2O洗涤3次,并用NaCl饱和溶液洗涤一次。经$MgSO_4$干燥有机层,过滤并蒸发。在真空下经P_2O_5/KOH和链烷烃干燥残渣。

[0156] 产量:10.2g(30.3mmol)78.83%

[0157] Rf-0.5(3);0.862(4)。

[0158] II.Boc-Pro-Gly-N_2H_3.将10.2g Boc-Pro-Gly-OEt(30.3mmol)溶解于80ml无水甲醇,并添加4倍过量的水合肼,即5.88ml(121.2mmol)。在磁性搅拌器上在室温下搅拌溶液12小时。蒸发反应混合物,然后用醚蒸发两次;然后,将醚(～5ml)倒入残渣,置于冰箱过夜(为更好结晶化,添加晶种)。过滤沉淀的晶体,使用过滤器用醚洗涤并在干燥器中干燥。

[0159] 产量:6.9g(20.79mmol)68.62%

[0160] 熔点98-100℃

[0161] Rf-0.284(3);0.474(4);0.189(5)。

[0162] III.Boc-Pro-Gly-Pro-OBzl.

[0163] 将58.4mmol(4倍过量)乙酸乙酯中的氯化氢添加到在40ml DMF中含4.7g(14.6mmol)Boc-Pro-Gly-N_2H_3的溶液,冷却降至-20℃,即刻地,1.73mL(14.6mmol)新蒸馏的亚硝酸叔丁酯;然后,在-5℃下搅拌反应混合物30分钟。将反应混合物冷却降至-40℃,并添加冷却降至-10℃的8.2ml(58.4mmol)在4ml DMF中的TEA的溶液;当反应混合物的温度升至-20℃时,添加3.7g(15.3mmol)1.05倍过量的HCl·H-Pro-OBzl至20ml DMF和2.14ml TEA。然后,在磁性搅拌器上在4℃下搅拌24小时。蒸发反应混合物,并将残渣溶解于200ml乙酸乙酯,并用20ml H_2O洗涤2次,用20mL10%$KHSO_4$溶液洗涤3次,用20ml H_2O洗涤3次,用20ml 5%$NaHCO_3$洗涤3次,并用3ml H_2O洗涤3次。经$MgSO_4$干燥乙酸乙酯溶液。然后将其蒸发,并添加少量醚(~10mL)至残渣。然后,置于冰箱。为了更好的产物结晶化,添加晶种。过滤沉淀晶体并使用过滤器用少量醚洗涤。然后,在干燥器中将其干燥。

[0164] 产量:5.358g(11.65mmol)79.92%

[0165] Rf-0.326(3);0.947(4);0.390(5)

[0166] 熔点125-126℃

[0167] $[\alpha]_D^{22}$=-101.2°(c=0.85;CH_3OH)

[0168] 元素分析:C 62.89(62.73);N 9.21(9.14);H 7.52(7.24)。

[0169] IV.TFA·H-Pro-Gly-Pro-OBzl.将5.358g(11.65mmol)Boc-Pro-Gly-Pro-OBzl溶解于29.13ml二氯甲烷中;添加29.13ml TFA,在室温下温育45分钟,用无水乙醇蒸发2次,用苯蒸发2次,用醚蒸发2次,并溶解于苯;然后,倒入己烷。倾析己烷,并在真空下在干燥器中经P_2O_5/KOH和链烷烃干燥所得物质。产量:4.63g(9.7mmol)98%

[0170] Rf-0.043(3);0.247(4);0.018(5)。

[0171] V.Boc-Arg(NO2)-Pro-Gly-Pro-OBzl.将3.09g(9.7mmol)Boc-Arg(NO_2)溶解于50ml THF和10ml DMF中;然后,添加2.07g(10.67mmol)DCC,冷却降至0℃,并搅拌40分钟;将TFA·H-Pro-Gly-Pro-OBzl的溶液添加到50ml THF和4.46ml(9.7mmol)TEA。搅拌反应混合物三天。过滤掉DCM沉淀物;在真空下蒸发溶液;然后,将200ml己烷添加到残渣。接着,将所需产物作为油分离,将其溶解于500ml乙酸乙酯并用25ml0.1N HCl洗涤3次,用25ml H_2O洗涤三次,并用NaCl饱和溶液洗涤一次。经$MgSO_4$干燥有机层,过滤并蒸发。在真空下经P_2O_5/KOH和链烷烃干燥残渣,

[0172] 产量:4.76g(7.9mmol)85%

[0173] Rf-0.44(1);0.8(6)

[0174] 熔点108-110℃。

[0175] VI.TFA-Arg(NO_2)-Pro-Gly-Pro-OBzl.将4.76g(7.9mmol)Boc-Arg(NO_2)-Pro-Gly-Pro-OBzl溶解于20ml二氯甲烷中;添加20ml TFA,在室温下温育45分钟,用无水乙醇蒸发2次,用苯蒸发2次,用醚蒸发2次,并溶解于苯;然后,倒入己烷。倾析己烷,并在真空下在干燥器中经P_2O_5/KOH和链烷烃干燥所得物质。

[0176] 定量产量。

[0177] Rf-0.16(1);0.27(6)。

[0178] VII.Boc-Pro-Arg(NO_2)-Pro-Gly-Pro-OBzl.将1.7g(7.9mmol)Boc-Pro溶解于20mL THF,并添加1.07g(7.9mmol)BT,冷却降至0℃;添加在50mL THF中的1.8g DCC。在40min中,将TFA-Arg(NO_2)-Pro-Gly-Pro-OBzl(7.9mmol)在50mL THF中的溶液和1.1mL(7.9mmol)TEA添加到反应混合物。在0℃下搅拌2小时并在在室温下搅拌2天;然后,过滤掉DCM,在真空下蒸发,溶解于500mL乙酸乙酯中,并与Boc-Pro-Arg(NO_2)-Pro-Gly-Pro-OBzl类似处理。

[0179] 产量:4.07g(67.8%)

[0180] Rf-0.42(1);0.72(6);0.31(7)

[0181] 熔点147-148℃。

[0182] VIII.Boc-Pro-Arg-Pro-Gly-Pro.将4.07g(6.5mmol)溶解于100ml甲醇;添加1ml 1N盐酸和0.85g催化剂,即10%在中性氧化铝上的氧化钯,并在室温下在1atm.下进行在干燥氢蒸汽中的氢化6小时。然后,过滤掉催化剂并用甲醇在过滤器上洗涤。将收集的滤液蒸发至干燥。用醚从无水甲醇沉淀残渣。产量:3.02g(5.8mmol)89%

[0183] Rf-0.125(1),0.57(2),0.37(6)。

[0184] IX.Pro-Arg-Pro-Gly-Pro.将3.02g(5.8mmol)Boc-Pro-Arg-Pro-Gly-OH悬浮于10ml在二噁烷中的2N盐酸,并在室温下温育45分钟。然后,添加干燥醚,并通过用干燥醚倾析洗涤沉淀物。用醚从无水甲醇再沉淀。将所得沉淀物溶解于7.5ml 30%乙醇,并施加到Amberlyst A-21(AcO^-形式)柱用于乙酸盐/盐酸盐交换。用200ml 30%乙醇洗脱肽,在真空下蒸发至干燥并有无水醚从甲醇沉淀。

[0185] 产量:2.27g(75%)

[0186] Rf-0.2(2);0.1(6)

[0187] 熔点180-185℃

[0188] $[\alpha]_D^{20}$=-105°(c=0.4;CH_3COOH)。

[0189] 相对于精氨酸的氨基酸组成:Pro 2.78(3);Gly 1.1(1)。

[0190] HPLC结果:柱:Supercosil ABZ Plus,尺寸4.6×250mm;流速1mL/min;洗脱液A:$NH_4H_2PO_4$+H_3PO_4(50mM,pH2.8);洗脱液B:MeOH

[0191] 梯度:0-20min(0-40%B);保留时间10.13min。

[0192] 实施例3.Pro-Gly-Pro三肽的合成。

[0193] 根据图3所示的图表进行Pro-Gly-Pro三肽的合成。使用新式保护基团和溶液中肽键形成法进行Pro-Gly-Pro三肽的合成。使用PivCl的混合酸酐法用于肽键形成。叔丁氧基羰基保护(Boc)用于氨基的保护,并且采用苄基酯(OBzl)来保护羧基。使用逐步法来肽链延长。

[0194] L-氨基酸的衍生物用于合成。使用真空蒸发器在40℃下进行溶液的蒸发。给出没有校正的用伯蒂乌斯设备(Boethius apparatus)测定的熔点。

[0195] 通过TLC在Silufol硅胶-涂布板(Czech Republic)上试验获得的化合物的特性。通过用茚三酮和(或)邻联甲苯胺的溶液喷雾平板来检测物质。提供在以下溶剂体系中的色谱迁移度(Rf)值:(乙酸乙酯:丙酮:50%乙酸:水(2:1:1);苯:乙醇(8:2);氯仿:甲醇:氨(6:4:1);氯仿:甲醇:乙酸(42:7:1);丙酮:苯:乙酸(50:100:1);氯仿:甲醇(9:1);己烷:丙酮

(3:2)；丁醇:乙酸:水(4:1:1)；丁醇:乙酸:吡啶:水(30:6:20:24)；己烷:乙酸乙酯(4:1)；氯仿:甲醇:氨(8:1.75:0.25)；(异丙醇:甲酸:水)(20:5:1)；(氯仿:甲醇:氨)(7:2.5:0.5)；甲醇。通过AI-EPO旋光计测定旋光率)。使用Carlo-Erba型号1106分析器分析元素。

[0196] I.Boc-Pro-Gly-OH的生产。

[0197] 1.将10.75g(50mmol)Boc-Pro溶解于150ml乙腈，冷却降至-5℃；然后，添加7.7ml(50mmol)三乙胺(TEA)至溶液，并在磁性搅拌器上搅拌的同时，将其冷却降至-20℃。将6.8ml(55mmol)新戊酰氯(PivCl)添加到冷却的溶液，在磁性搅拌器上在-10℃搅拌20分钟，然后冷却降至-30℃；然后，添加Gly的预冷溶液。同时，制备Gly溶液。

[0198] 2.将4.5g Gly(60mmol，1.2倍过量)溶解于35ml水和60ml乙腈，添加8.4ml(60mmol)三乙胺。将混合物冷却降至-10℃，并在20分钟后添加到第一烧瓶的溶液。在-10℃将反应混合物温育1小时，并在18-20℃在磁性搅拌器上搅拌2小时。在旋转蒸发器上蒸发反应混合物。添加约50ml水至残渣。用3倍过量的$NaHSO_4$(24.84g)酸化水溶液至pH＝3，并用100ml乙酸乙酯提取5次。用H_2O(50ml)、10％$KHSO_4$溶液(50ml)、H_2O(50ml)和饱和的NaCl(50ml)洗涤收集的乙酸乙酯溶液。经$MgSO_4$干燥乙酸乙酯溶液。过滤并蒸发干燥的乙酸乙酯。添加干燥醚至残渣。在将醚添加至烧瓶时，沉淀产物，使用过滤器用干燥醚过滤并洗涤。在真空下在干燥器中经KOH、P_2O_5和链烷烃干燥所得物质，同时更换干燥剂若干次。

[0199] 产物M.W.272.3

[0200] 产量:5.97g(21.74mmol)；(43.5％)

[0201] 熔点70℃。

[0202] Rf-0.863(丙酮-苯-乙酸)(50:100:1)；

[0203] 0.746(苯-乙醇)(8:2)；0.903(氯仿:甲醇)(9:1)；

[0204] 0.847(乙酸乙酯:丙酮:50％乙酸:水)(2:1:1)。

[0205] II.Boc-Pro-Gly-Pro-OBzl的生产。

[0206] 1.将5.97g(21.74mmol)Boc-Pro-Gly-OH溶解于100ml乙腈，冷却降至-5℃；然后，添加1.1倍过量(3.35ml，23.9mmol)的三乙胺(TEA)至溶液，并在磁性搅拌器上搅拌的同时，将其冷却降至-20℃。将1.1倍过量(2.34ml，23.9mmol)新戊酰氯(PivCl)添加到冷却的溶液，在磁性搅拌器上在-10℃搅拌20分钟，然后冷却降至-30℃；然后，添加HCl·Pro-OBzl的预冷溶液。同时，制备HCl·Pro-OBzl。

[0207] 2.将6.3g HCl·Pro-OBzl(26.1mmol，1.2过量)溶解于50ml乙腈，添加4.0ml(28.71mmol；1.1倍过量)三乙胺。将混合物冷却降至-10℃，并在20分钟后添加到第一烧瓶的溶液。在-10℃将反应混合物温育1小时，并在18-20℃在磁性搅拌器上搅拌2小时。蒸发反应混合物。添加300ml乙酸乙酯至蒸发残渣。用H_2O(用25mL 3次)、10％$KHSO_4$溶液(用25ml 3次)H_2O(用25ml 3次)、5％$NaHCO_3$(用25ml 3次)H_2O(25ml 3次)和饱和的NaCl溶液(25ml一次)洗涤乙酸乙酯溶液。经$MgSO_4$干燥乙酸乙酯溶液。过滤并蒸发干燥的乙酸乙酯。添加约100ml干燥醚至残渣。在将醚添加至烧瓶时，沉淀产物，使用过滤器用干燥醚过滤并洗涤。在真空下在干燥器中经KOH、P_2O_5和链烷烃干燥所得物质，同时更换干燥剂若干次。

[0208] 产物M.W.459.82

[0209] 产量:8.12g(17.66mmol)；(81.23％)

[0210] 熔点125-126℃

[0211] Rf-0.326(丙酮:苯:乙酸)(50:100:1)

[0212] 0.390(已烷:丙酮)(3:2)

[0213] 0.947(氯仿:甲醇)(9:1)

[0214] 0.716(甲醇)

[0215] 0.620(苯:乙醇)(8:2)

[0216] III.Boc-Pro-Gly-Pro-OH的生产。

[0217] 将8g(17.4mmol)Boc-Pro-Gly-Pro-OBzl溶解于100ml甲醇,添加0.5ml CH_3COOH和钯黑,同时在磁性搅拌器上搅拌,并经2小时通氢。过滤溶液,蒸发,用苯蒸发3次并用乙酸乙酯蒸发2次。然后,将其用醚已烷从丙酮沉淀,并在干燥器中经P_2O_5/KOH和链烷烃干燥烧瓶中形成的沉淀物。

[0218] 产物M.W.369.39

[0219] 产量:6.3g(17.05mmol)98%

[0220] 熔点99-100℃

[0221] Rf:0.560(氯仿-甲醇)(9:1)

[0222] 0.812(氯仿-甲醇-乙酸)(42:7:1)

[0223] 0.187(丙酮:苯:乙酸)(50:100:1)

[0224] 0.164(已烷:丙酮)(3:2)

[0225] IV.Pro-Gly-Pro的生产。

[0226] 将40.6ml二氯甲烷和40.6ml TFA添加到6.0g(16.24mmol)Boc-Pro-Gly-Pro-OH并在室温下温育45分钟;在除去保护基团后,用无水甲醇蒸发溶液2次、用苯蒸发2次并用醚蒸发2次。用醚从丙酮将其沉淀。在真空下经P_2O_5、KOH和链烷烃干燥残渣。用干燥的二乙醚从无水甲醇再沉淀干燥产物。

[0227] 产物M.W.381.39

[0228] 产量:5.6g(14.72mmol)(90.62%)

[0229] 将所得TFA·Pro-Gly-Pro-OH的沉淀物溶解于10ml 30%乙醇;然后,添加25mL Amberlyst A-21(CH_3COO^-)离子交换树脂来将三氟醋酸盐交换为乙酸盐并在磁性搅拌器上搅拌45分钟;然后,将其用150ml 30%乙醇洗涤,在真空下蒸发至干燥并用干燥的二乙醚从无水甲醇沉淀。过滤掉所得沉淀物并在真空下经P_2O_5、KOH和链烷烃在干燥器中干燥,同时更换干燥剂若干次。

[0230] 产物M.W.328.34

[0231] 产量:4.54g(13.84mmol)(94%)

[0232] 熔点143-145℃

[0233] $[\alpha]_D^{22}$-31.5°(c1,MeOH)

[0234] Rf:0.59(氯仿:甲醇:氨)(6:4:1)

[0235] 0.52(氯仿:甲醇:氨)(4:4.5:1.5)

[0236] 0.524(乙醇:氨)(7:3)

[0237] 实施例4.Thr-Lys-Pro-Arg-Pro-Phe六肽的合成。

[0238] 根据图4所示的图表进行Thr-Lys-Pro-Arg-Pro-Phe六肽的合成。

[0239] 使用新式保护基团和溶液中肽键形成法进行Thr-Lys-Pro-Arg-Pro-Phe六肽的合

成。使用TBA盐法、活化酯法、碳二亚胺法和混合酸酐法来形成肽键。使用逐步法(stepwise approach)和嵌段法(blockwise approach)两者。

[0240] 实施例5.Thr-Lys-Pro-Arg-Pro五肽的合成。

[0241] 根据图5所示的图表进行Thr-Lys-Pro-Arg-Pro五肽的合成。

[0242] 使用新式保护基团和溶液中肽键形成法进行Thr-Lys-Pro-Arg-Pro五肽的合成。使用TBA盐法、活化酯法和碳二亚胺法来形成肽键。使用逐步法和嵌段法两者。

[0243] 实施例6.Thr-Lys二肽的合成。

[0244] 根据图6所示的图表进行Thr-Lys二肽的合成。使用新式保护基团和溶液中肽键形成法进行Thr-Lys二肽的合成。使用TBA盐法形成肽键。使用受保护的和游离L-氨基酸两者的衍生物来合成实施例7-9所述的肽。肽合成时使用的溶剂相应地无水化。通过高效液相色谱(HPLC)使用Millichrome A-02微型柱液相色谱系统试验肽的同质性(homogeneity)。通过质谱使用Bruker质谱仪(®Bruker Daltonik GmbH)表征合成的肽。

[0245] 实施例7.Thr-Lys-Pro-Phe四肽的合成。

[0246] 根据图7所示的图表进行Thr-Lys-Pro-Phe四肽的合成。

[0247] 使用新式保护基团和溶液中肽键形成法进行Thr-Lys-Pro-Phe四肽的合成。使用TBA盐法和活化酯法来形成肽键。使用逐步法来延伸肽链。使用受保护和游离L-氨基酸两者的衍生物来合成。使用真空蒸发器在40℃进行溶液的蒸发。给出没有校正的用伯蒂乌斯设备测定的熔点。通过TLC在Silufol硅胶涂布板(Czech Republic)上试验获得的化合物的特性。通过用茚三酮和(或)邻联甲苯胺的溶液喷雾平板来检测物质。提供在以下溶剂体系中的色谱迁移度(Rf)值:(丁醇:乙酸:水)(4:1:1);(苯-乙醇)(8:2);(氯仿:甲醇)(9:1);(异丙醇:甲酸:水)(20:5:1);(氯仿-甲醇-乙酸)(42:7:1);(氯仿:甲醇:氨)(8:1.75:0.25);(丙酮-苯-乙酸)(50:100:1);(氯仿:甲醇:氨)(6:4:1);(氯仿:甲醇:氨)(44.5:1.5);(丁醇:乙酸:吡啶:水)(30:6:20:24)。

[0248] I.Z-Lys(Boc)-Pro-OH的生产。

[0249] 将TBA的13％溶液(98ml)添加到46.32mmol(5.34g)Pro并用乙醇蒸发两次,用乙醇/苯混合物蒸发两次和用苯蒸发2次。添加300ml无水乙酸乙酯;将反应混合物冷却降至0℃,并添加23.16mmol(12.66g)之前合成的Z-Lys(Boc)-OPfp,并在磁性搅拌器上搅拌1小时。蒸发反应物质(reaction mass),并将40ml水添加到蒸发残渣。用80ml醚洗涤水溶液3次。用醚洗涤后,用柠檬酸酸化水溶液至pH 3。酸化后,用乙酸乙酯以40ml等分提取水溶液3次。用20ml水洗涤提取后收集的乙酸乙酯3次,用20ml 10％的$KHSO_4$溶液洗涤3次,并用20ml水洗涤3次。经$MgSO_4$干燥乙酸乙酯溶液。然后,将其过滤并在旋转蒸发器上蒸发。用己烷从乙酸乙酯沉淀所得物质。倾析己烷,并在真空下在干燥器中经KOH、P_2O_5和链烷烃干燥所得物质,重复更换干燥剂。产量:9.68g(20.26mmol);(87.51％).

[0250] 熔点76-77℃

[0251] Rf-0.705(丁醇:乙酸:水)(4:1:1);

[0252] 0.560(苯-乙醇)(8:2);

[0253] 0.476(氯仿:甲醇)(9:1);

[0254] 0.813(异丙醇:甲酸:水)(20:5:1);

[0255] 0.297(丙酮-苯-乙酸)(50:100:1).

[0256] II.H-Lys(Boc)-Pro-OH的生产。

[0257] 将300ml无水甲醇、2ml乙酸和钯黑添加到9.68g(20.26mmol)Z-Lys(Boc)-Pro-OH，并在室温下在1atm下在干燥氢蒸汽中进行氢化8小时。然后，过滤掉催化剂并在过滤器用甲醇洗涤。蒸发收集的滤液至干燥。用醚从无水甲醇沉淀残渣。然后，在真空下将其干燥，同时更换干燥剂若干次。产量:6.38g(18.58mmol)；(91.87％)

[0258] 熔点98-99℃

[0259] Rf-0.110(氯仿-甲醇-乙酸)(42:7:1)；

[0260] 0.166(丁醇:乙酸:水)(4:1:1)；

[0261] 0.235(氯仿:甲醇:氨)(8:1.75:0.25)；

[0262] 0.494(异丙醇:甲酸:水)(20:5:1)(2:1:1)。

[0263] III.Boc-Thr-Lys-(Boc)-Pro-OH的生产。

[0264] 将13％TBA的溶液(39.4ml)添加到18.58mmol(6.38g)Lys(Boc)-Pro-OH并用乙醇蒸发2次，用乙醇/苯混合物蒸发2次并用苯蒸发2次。添加250ml无水乙酸乙酯;将反应混合物冷却降至0℃，并添加9.2mmol(3.74g)之前合成的Boc-Thr-OPfp，并在磁性搅拌器上搅拌1小时。蒸发反应物质，并添加40ml水至蒸发残渣。用80ml醚洗涤水溶液3次。用醚洗涤后，用18.58mmol(3.95g)柠檬酸酸化水溶液至pH 3。酸化后，用乙酸乙酯以40ml等分提取水溶液3次。提取后收集的乙酸乙酯用20ml水洗涤3次，用20ml 10％的$KHSO_4$溶液洗涤3次，并用20ml水洗涤3次。经$MgSO_4$干燥乙酸乙酯溶液。

[0265] 然后，将其过滤并在旋转蒸发器上蒸发。用己烷从乙酸乙酯沉淀所得物质。倾析己烷，并在真空下在干燥器中经KOH、P_2O_5和链烷烃干燥所得物质，同时更换干燥剂若干次。

[0266] 产量:3.32g(6.1mmol)；(66.26％)熔点105-107℃

[0267] Rf-0.297(丙酮-苯-乙酸)(50:100:1)；

[0268] 0.234(氯仿:甲醇)(9:1)；0.560(苯-乙醇)(8:2).

[0269] IV.Boc-Thr-Lys(Boc)-Pro-Phe-OH的生产。

[0270] 1.Boc-Thr-Lys(Boc)-Pro-OSu的生产。

[0271] 将3.53mmol(0.38g)羟基琥珀酰亚胺添加到1.66g(3.05mmol)在50ml无水乙酸乙酯中的Boc-Thr-Lys(Boc)-Pro，将所得溶液冷却降至0℃，同时在磁性搅拌器上搅拌;然后，添加0.76g(3.53mmol)DCC(二环己基碳二亚胺)并在磁性搅拌器上在室温下搅拌2小时。反应停止后，过滤掉所得反应混合物并丢弃沉淀物。添加200ml无水乙酸乙酯至所得溶液。用20mlNaCl的饱和溶液洗涤收集的乙酸乙酯2次，用20ml 10％的$KHSO_4$溶液洗涤两次，用20ml NaCl的饱和溶液洗涤2次，用20ml 5％$NaHCO_3$洗涤2次，并用20ml NaCl的饱和溶液洗涤2次。经$MgSO_4$干燥乙酸乙酯溶液。然后，将其在旋转蒸发器上过滤和蒸发。用醚和己烷从乙酸乙酯沉淀所得物质。在真空下经KOH、P_2O_5和链烷烃过滤和干燥沉淀物，同时更换干燥剂若干次。

[0272] 产量:1.52g(2.37mmol)77.74％.

[0273] Rf-0.560(苯-乙醇)(8:2)；0.457(氯仿:甲醇)(9:1)。

[0274] 2.制备之后，将1.52g(2.37mmol)Boc-Thr-Lys(Boc)-Pro-OSu溶解于25ml二甲基甲酰胺并添加到包含在25ml二甲基甲酰胺中的0.392g(2.37mmol)L-Phe的制备液。在磁性搅拌器上在室温下搅拌溶液。在旋转蒸发器上蒸发反应混合物并用醚从苯沉淀。过滤沉淀

物并在真空下经P_2O_5/KOH和链烷烃干燥，同时更换干燥剂若干次。

[0275] 产量：1.03g(1.64mmol)69.0％。

[0276] Rf-0.063(异丙醇:甲酸:水)(20:5:1)(2:1:1)。

[0277] 0.745(氯仿:甲醇:氨)(8:1.75:0.25)；

[0278] V.H-Thr-Lys-Pro-Phe-OH的生产。

[0279] 将1.03g(1.64mmol)Boc-Thr-Lys(Boc)-Pro-Phe-OH添加到8.2mL二氯甲烷和8.2ml TFA，然后在室温下温育混合物45分钟，并在除去保护基团后，用无水甲醇蒸发溶液2次，用苯蒸发2次，并用醚蒸发2次。用醚从甲醇将其沉淀。在真空下经P_2O_5、KOH和链烷烃干燥残渣。将所得沉淀物溶解于5ml 30％乙醇，并施加到Amberlyst A-21(AcO^-形式)柱用于乙酸盐/盐酸盐交换。用100ml 30％乙醇洗脱肽，在真空下蒸发至干燥，并用无水醚从无水甲醇沉淀。过滤所得沉淀物，并在真空下经P_2O_5、KOH和链烷烃在干燥器中干燥，同时更换干燥剂若干次。

[0280] 产量：0.7g(1.43mmol)(87％)。

[0281] 熔点129-131℃

[0282] Rf:-0.201(丁醇:乙酸:吡啶:水)(30:6:20:24)；

[0283] 0.156(氯仿:甲醇:氨)(4:4.5:1.5)。

[0284] 实施例1-7中所述的肽序列的色谱和质谱分析示于表2中。

[0285] 表2.

[0286]

编号	肽	SEQ ID NO	MW	色谱特性		质谱特性	
				Tr, min	纯度, %	*$[M+H]^+$	分子离子峰的碎片(fragmentation)**
1	Thr-Lys-Pro-Arg-Pro	6	597	8.01	97	598	369(100), 272(31), 580(29)
2	Thr-Lys-Pro-Arg-Pro-Phe	7	744	14.8	96	745	516(100)0.263(59), 327(38)
3	Pro-Arg-Pro-Gly-Pro	2675	522	9.14	89	523	25(100)0.425(27), 407(11)
4	Thr-Lys-Pro-Arg	4	500	5.72	94	501	457(100)0.272(55), 484(47),
5	Arg-Pro-Gly-Pro	2676	425	6.82	85	426	408(100), 293(54), 254(24)
6	Pro-Gly-Pro	2677	269	5.42	>98	270	173(100), 155(98), 116(75)
7	Thr-Lys-Pro	5	344	4.15	93	345	230(100), 129(19), 212(16)
8	Thr-Lys	2678	247	1.77	95	248	230(100), 129(78), 84(30)
9	Thr-Lys-Pro-Phe	2679	500	5.72	94	501	457(100)0.272(55), 484(47)

[0287] 注：

[0288] *对应于$[M+H]^+$的分子峰

[0289] **在与35eV的氦原子碰撞的能量下在分子离子峰的碎片化中形成的最强离子。

[0290] 表2示出使用Millichrome A-02微型柱液相色谱系统的高效液相色谱(HPLC)的数据以及使用ThermoElectron LCQ Advantage MAX质谱仪获得的合成肽的特征。

[0291] 显影色谱条件允许容易地获得色谱均一产物。

[0292] 肽分析的色谱条件。

[0293] 色谱:Milichrom-A02

[0294] 柱:Prontosil 120-5C18aq,2*75mm

[0295] 洗脱液A:0.2M $LiClO_4$+5mM $HClO_4$

[0296] 洗脱液B:甲醇。

[0297] 表3示出合成肽分离的梯度形状。

[0298] 表3

[0299]

时间	%B
0	5
16.5	80

[0300] 流速:150μl/min

[0301] 波长的设置:210,220,230,240nm

[0302] 质谱条件

[0303] 设备:ThermoElectron LCQ Advantage MAX

[0304] 离子源:电喷射;通过离子碰撞(He)在35eV下分子离子碎片以5μl/min流速直接导入在0.1%乙酸中的浓度为10μg/ml的肽溶液

[0305] 源温度:250℃.

[0306] 电离电位3.5kV

[0307] 实施例8.药效团位置的鉴定。

[0308] 为了鉴定药效团,合成母肽Selank的片段:Thr-Lys;Thr-Lys-Pro;Pro-Gly-Pro;Arg-Pro-Gly-Pro;Pro-Arg-Pro-Gly-Pro;并使用相关临床前模型(pre-clinical model)(脊柱前凸试验(Lordosis test))在活体内进行效力试验。

[0309] 我们以100μg/大鼠的剂量研究以下组的肽关于雌性大鼠性行为的效力:Thr-Lys;Thr-Lys-Pro;Pro-Gly-Pro;Arg-Pro-Gly-Pro;Pro-Arg-Pro-Gly-Pro。记录切除卵巢的荷尔蒙刺激的雌性与性欲活跃雄性直接接触,或当这种接触不可能时的性行为。发现在监控期间Thr-Lys-Pro肽使雌性性前接受行为(proceptive behavior)由14±4增加至29±6次行为(p=0.028,威尔科克森试验(Wilcoxon test))。对雌性中脊柱前凸反应的作用具有相同趋势(p=0.09):在Thr-Lys-Pro肽作用下脊柱前凸的数量由0.73±0.12增加至0.97±0.12。这些结果表明在Thr-Lys-Pro肽作用的背景下性动机强化。在充分行为情形中效果是具体明显的。在表4中示出脊柱前凸模型中以下肽的效力研究结果:Thr-Lys;Thr-Lys-Pro;Pro-Gly-Pro;Arg-Pro-Gly-Pro;和Pro-Arg-Pro-Gly-Pro。

[0310] 表4.

[0311]

组	SEQ ID NO	黄体酮, mg/大鼠	试验产物, μg/大鼠	性前接受行为的行为数	脊柱前凸的百分比
阴性对照		0.5	0	14±4	0.73±0.12
Thr- Lys	2678	0.5	100	13±4	0.70±0.02
Thr-Lys-Pro	5	0.5	100	29±6	0.97±0.12
Pro-Gly-Pro	2677	0.5	100	13±5	0.74±0.09
Arg-Pro-Gly-Pro	2676	0.5	100	15±4	0.69±0.14
Pro-Arg-Pro-Gly-Pro	2675	0.5	100	14±6	0.73±0.14
阳性对照		1.0	0	22±11	0.98±0.09

[0312] 表4证明Thr-Lys-Pro三肽是药效团;此外,如表4的结果所述,较小的序列,即Thr-Lys二肽不起作用。

[0313] 实施例9.药效团试验

[0314] 为试验药效团,合成基于此的肽,即,相当于通式A-Thr-Lys-Pro-B-C-D-X的Thr-Lys-Pro(SEQ ID NO:5)三肽、Thr-Lys-Pro-Arg(SEQ ID NO:4)和Thr-Lys-Pro-Phe(SEQ ID NO:2679)四肽、Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6)五肽和Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)六肽,使用相关诊断前模型(脊柱前凸试验)在活体内进行效力试验。

[0315] 我们研究在100μg/大鼠剂量下以下组的肽关于雌性大鼠性行为的效力:Thr-Lys-Pro(SEQ ID NO:5);Thr-Lys-Pro-Arg(SEQ ID NO:4);Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6);和Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)。记录切除卵巢的激素刺激的雌性与性欲活跃雄性直接接触,或当这种接触不可能时的性行为。发现在监控期间来自包括Thr-Lys-Pro(SEQ ID NO:5)、Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6)和Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)的组的肽使雌性中性前接受行为的强度由14±4增加至26±4至36±6次行为(p=0.028,威尔科克森试验)。同时,Thr-Lys-Pro-Arg(SEQ ID NO:4)和Thr-Lys-Pro-Phe(SEQ ID NO:2679)不影响雌性性前接受行为的强度并且不增加脊柱前凸的数量,且Thr-Lys-Pro-Arg(SEQ ID NO:4)和Thr-Lys-Pro-Phe(SEQ ID NO:2679)四肽的基本参数保持在阴性对照的水平。对雌性脊柱前凸反应的作用具有相同的趋势(p=0.09)。在没有与伴侣直接接触时,肽作用明显。结果表明在Thr-Lys-Pro(SEQ ID NO:5)、Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6)、Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)肽作用的背景下性动机强化并且在Thr-Lys-Pro-Arg(SEQ ID NO:4)和Thr-Lys-Pro-Phe(SEQ ID NO:2679)四肽中缺少性动机效果。在充分行为情形中效果是具体和明显的。在表5中示出脊柱前凸模型中以下肽的效力研究结果:Thr-Lys-Pro(SEQ ID NO:5);Thr-Lys-Pro-Arg(SEQ ID NO:4);Thr-Lys-Pro-Phe(SEQ ID NO:2679);Thr-Lys-Pro-Arg-Pro(SEQ ID NO:6);Thr-Lys-Pro-Arg-Pro-Phe(SEQ ID NO:7)。

[0316] 表5.

[0317]

组	SEQ ID NO	黄体酮 mg/大鼠	试验产物, μg/大鼠	性前接受行为的行为数	脊柱前凸百分比
阴性对照		0.5	0	14±4	0.73±0.12
Thr-Lys-Pro	5	0.5	100	28±4	0.96±0.12
Thr-Lys-Pro-Arg	4	0.5	100	14±4	0.72±0.02
Thr-Lys-Pro-Phe	2679	0.5	100	13±5	0.73±0.09
Thr-Lys-Pro-Arg-Pro	6	0.5	100	36±6	0.99±0.09
Thr-Lys-Pro-Arg-Pro-Phe	7	0.5	100	26±4	0.94±0.14
阳性对照		1.0	0	22±11	0.98+0.09

[0318] 产业上的可利用性

[0319] 本发明涉及生物化学领域，特别地，涉及显示高活性并能够刺激发生紊乱的器官自我愈合的肽的生产方法。特别地，本发明扩大了用于刺激性功能和治疗性功能障碍的工具范围，同时减少了疗程持续时间和药疗法的成本。

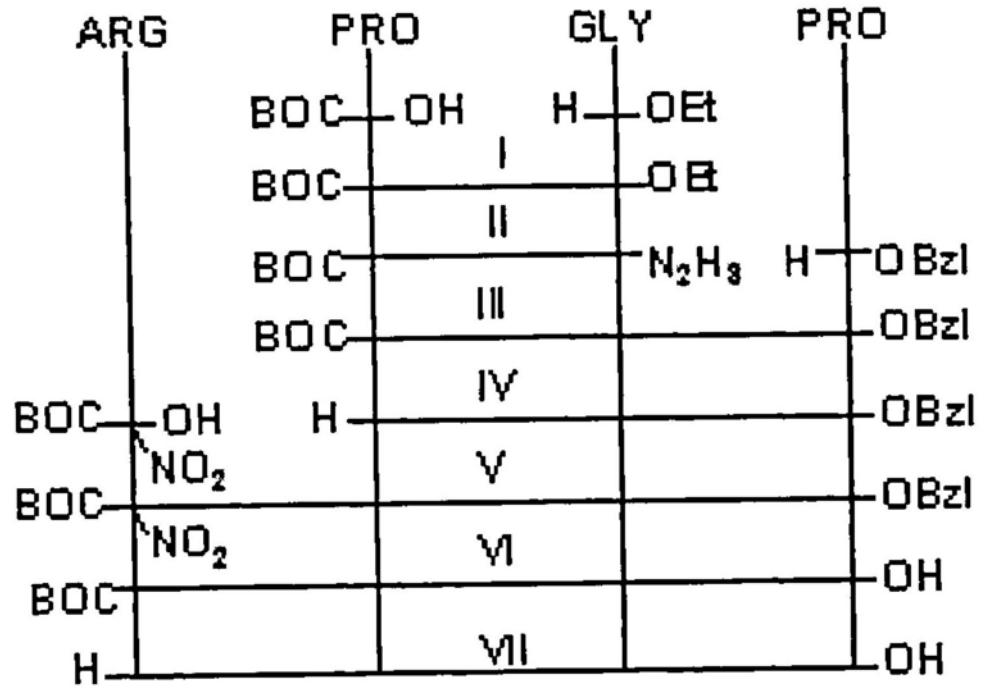

ARG
PRO
GLY
PRO
BOC
OH
H
OEt
I
BOC
OEt
II
BOC
N_2H_3
H
OBzl
III
BOC
OBzl
IV
BOC
OH
H
OBzl
NO_2
V
BOC
OBzl
NO_2
VI
BOC
OH
BOC
VII
H
OH

图1

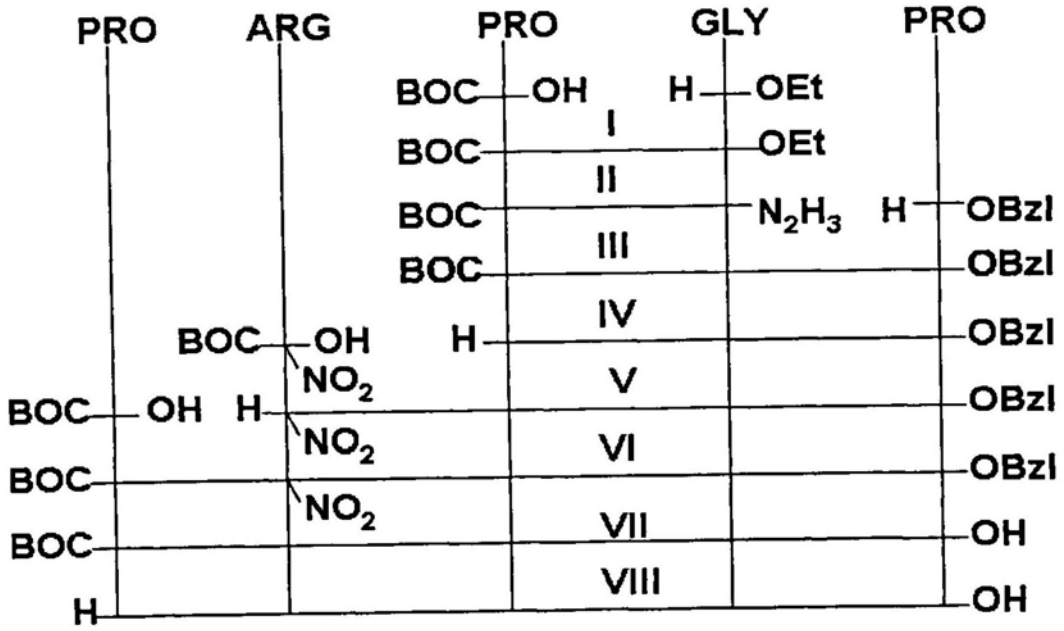

PRO
ARG
PRO
GLY
PRO
BOC
OH
H
OEt
I
BOC
OEt
II
BOC
N_2H_3
H
OBzl
III
BOC
OBzl
IV
BOC
OH
H
OBzl
NO_2
V
BOC
OH
H
OBzl
NO_2
VI
BOC
OBzl
NO_2
VII
BOC
OH
VIII
H
OH

图2

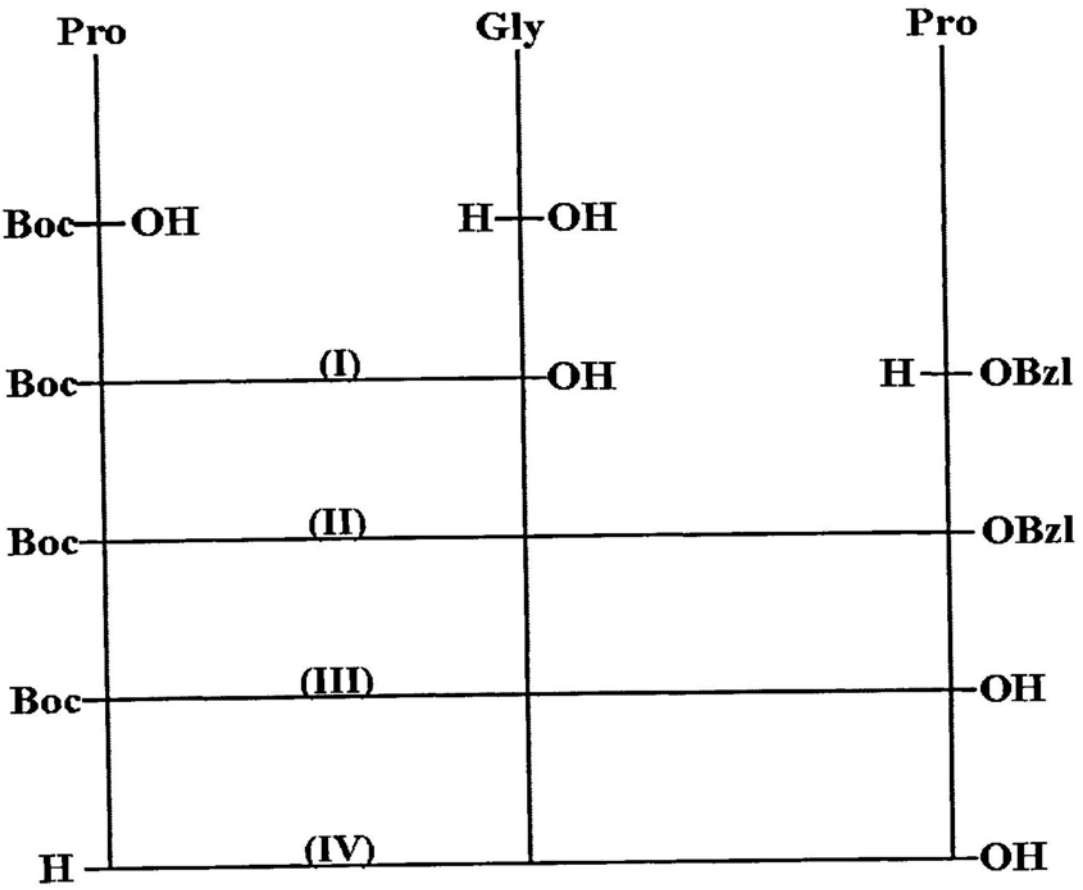

Pro
Gly
Pro
Boc
OH
H
OH
Boc
(I)
OH
H
OBzl
Boc
(II)
OBzl
Boc
(III)
OH
H
(IV)
OH

图3

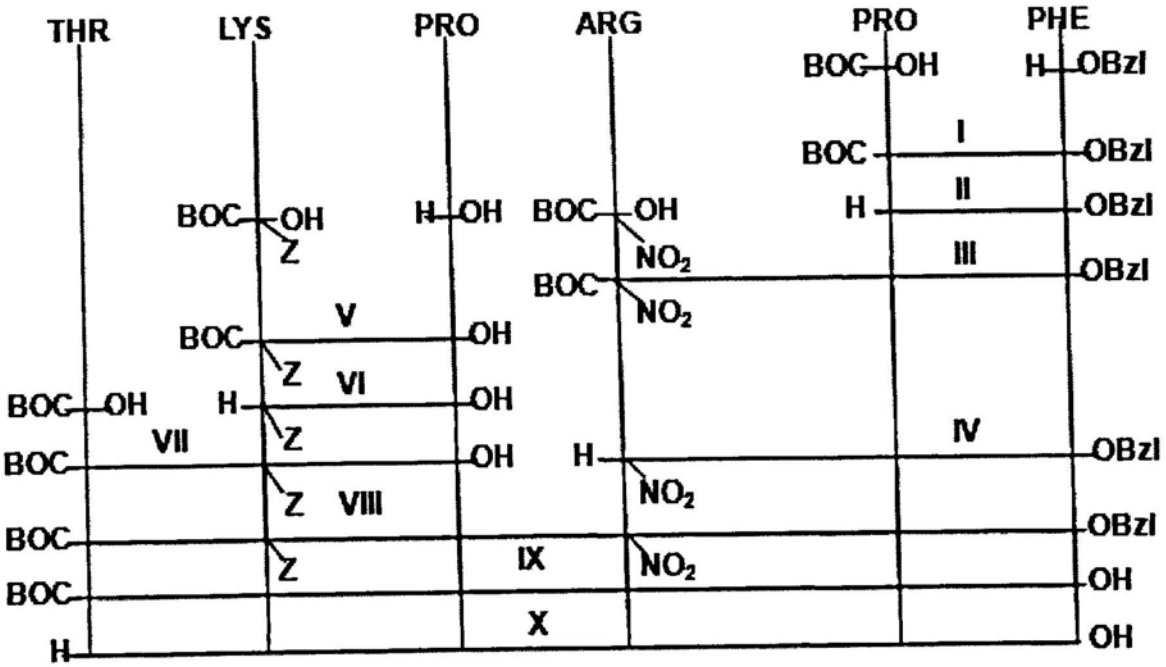

THR
LYS
PRO
ARG
PRO
PHE
BOC
OH
H
OBzl
I
II
III
IV
V
VI
VII
VIII
IX
X
Z
NO2
OH

图4

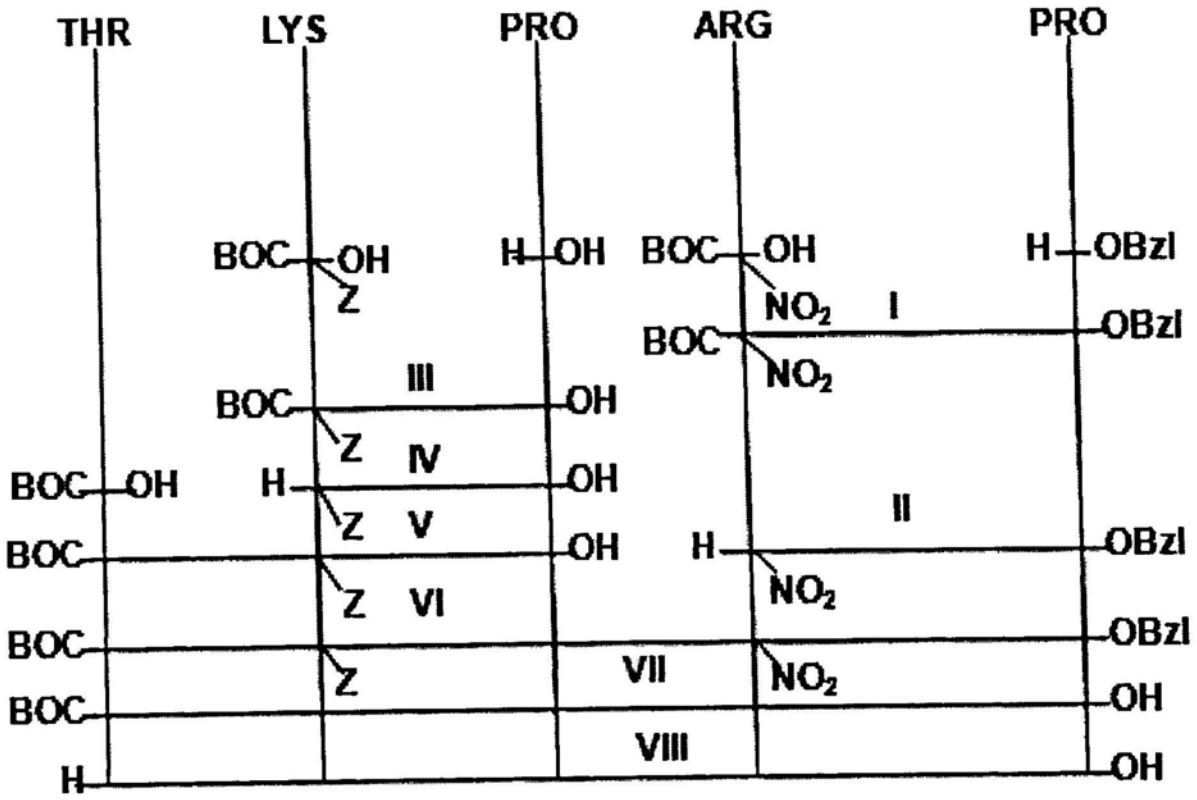

THR
LYS
PRO
ARG
PRO
BOC
OH
Z
H
OH
BOC
OH
NO2
I
H
OBzl
OBzl
BOC
NO2
III
BOC
OH
Z
IV
BOC
OH
H
OH
Z
V
II
BOC
OH
H
OBzl
Z
VI
NO2
BOC
OBzl
Z
VII
NO2
BOC
OH
BOC
VIII
H
OH

图5

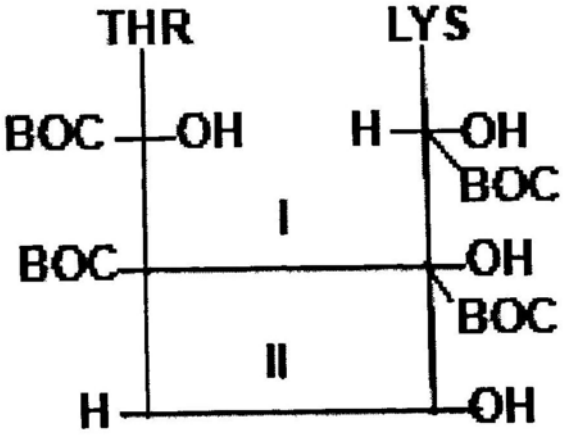

THR
LYS
BOC
OH
H
OH
BOC
I
BOC
OH
BOC
II
H
OH

图6

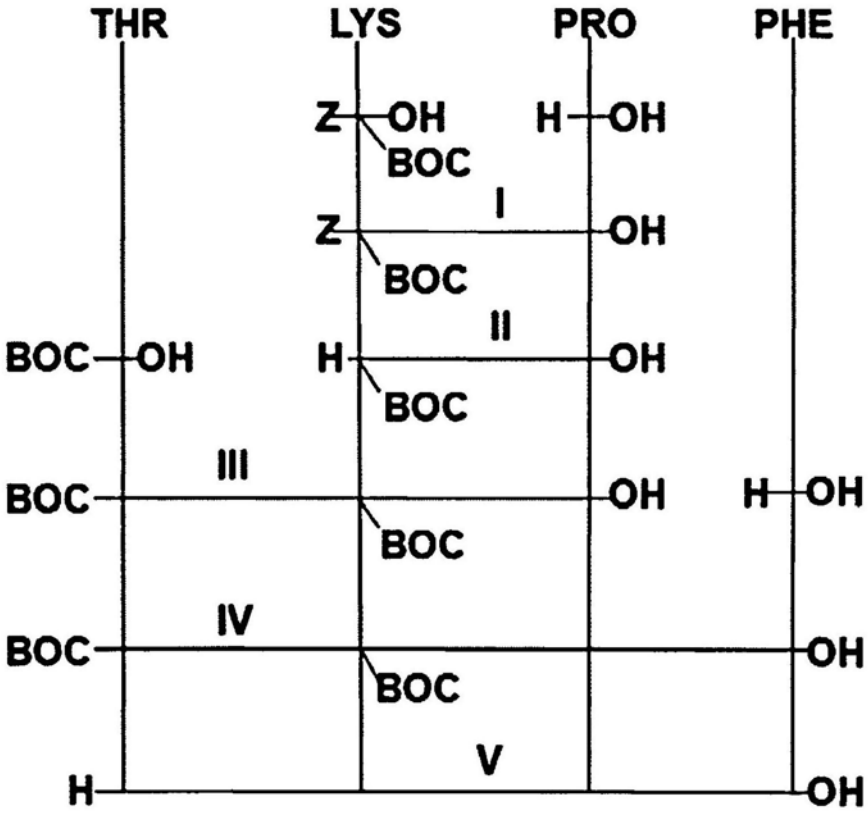

THR
LYS
PRO
PHE
Z
OH
H
OH
BOC
I
Z
OH
BOC
II
BOC
OH
H
OH
BOC
III
BOC
OH
H
OH
BOC
IV
BOC
OH
BOC
V
H
OH

图7