

(CC3=CNC=N3)NC(=O)[C@H](CC4=CNC=N4)NC(=O)[C@H](C(C)C)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H](CC5=CC=C(C=C5)O)NC(=O)CNC(=O)[C@H](CO)NC(=O)[C@H](CC(=O)O)NC(=O)[C@H](CC6=CNC=N6)NC(=O)[C@H](CCCNC(=N)N)NC(=O)[C@H](CC7=CC=CC=C7)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H](C)NC(=O)[C@H](CC(=O)O)N

InChI

InChI=1S/C203H311N55O60S/c1-28-106(20)164(195(310)220-91-149(267)228-130(71-98(4)5)181(296)238-129(66-70-319-27)179(294)251-158(100(8)9)193(308)218-87-146(264)215-88-151(269)250-160(102(12)13)198(313)255-163(105(18)19)199(314)258-165(107(21)29-2)200(315)227-112(26)202(317)318)257-201(316)166(108(22)30-3)256-169(284)109(23)224-147(265)89-216-171(286)122(51-40-42-67-204)233-188(303)139(81-145(208)263)244-192(307)143(94-260)230-150(268)92-219-194(309)159(101(10)11)252-191(306)141(83-157(280)281)245-177(292)127(60-64-153(272)273)232-168(283)111(25)226-180(295)133(73-113-45-34-31-35-46-113)241-184(299)135(75-115-49-38-33-39-50-115)247-196(311)162(104(16)17)254-190(305)131(72-99(6)7)239-173(288)123(52-41-43-68-205)234-175(290)125(58-62-144(207)262)236-185(300)136(77-117-84-211-95-221-117)243-187(302)138(79-119-86-213-97-223-119)248-197(312)161(103(14)15)253-178(293)128(61-65-154(274)275)237-182(297)132(76-116-54-56-120(261)57-55-116)229-148(266)90-217-172(287)142(93-259)249-189(304)140(82-156(278)279)246-186(301)137(78-118-85-212-96-222-118)242-174(289)124(53-44-69-214-203(209)210)235-183(298)134(74-114-47-36-32-37-48-114)240-176(291)126(59-63-152(270)271)231-167(282)110(24)225-170(285)121(206)80-155(276)277/h31-39,45-50,54-57,84-86,95-112,121-143,158-166,259-261H,28-30,40-44,51-53,58-83,87-94,204-206H2,1-27H3,(H2,207,262)(H2,208,263)(H,211,221)(H,212,222)(H,213,223)(H,215,264)(H,216,286)(H,217,287)(H,218,308)(H,219,309)(H,220,310)(H,224,265)(H,225,285)(H,226,295)(H,227,315)(H,228,267)(H,229,266)(H,230,268)(H,231,282)(H,232,283)(H,233,303)(H,234,290)(H,235,298)(H,236,300)(H,237,297)(H,238,296)(H,239,288)(H,240,291)(H,241,299)(H,242,289)(H,243,302)(H,244,307)(H,245,292)(H,246,301)(H,247,311)(H,248,312)(H,249,304)(H,250,269)(H,251,294)(H,252,306)(H,253,293)(H,254,305)(H,255,313)(H,256,284)(H,257,316)(H,258,314)(H,270,271)(H,272,273)(H,274,275)(H,276,277)(H,278,279)(H,280,281)(H,317,318)(H4,209,210,214)/t106-,107-,108-,109-,110-,111-,112-,121-,122-,123-,124-,125-,126-,127-,128-,129-,130-,131-,132-,133-,134-,135-,136-,137-,138-,139-,140-,141-,142-,143-,158-,159-,160-,161-,162-,163-,164-,165-,166-/m0/s1

InChIKey

DZHSAAHHDTRWUTF-SIQRNXPUSA-N

IUPAC name

(4S)-5-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[2-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-5-amino-1-[[[(2S)-6-amino-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[2-[[[(2S)-1-[[[(2S)-4-amino-1-[[[(2S)-6-amino-1-[[2-[[[(2S)-1-[[[(2S,3S)-1-[[[(2S,3S)-1-[[2-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[2-[[[(2S)-1-[[[(2S)-1-[[[(2S,3S)-1-[[[(1S)-1-carboxyethyl]amino]-3-methyl-1-oxopentan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-2-oxoethyl]amino]-2-oxoethyl]amino]-3-methyl-1-oxobutan-2-yl]amino]-4-methylsulfanyl-1-oxobutan-2-yl]amino]-4-methyl-1-oxopentan-2-yl]amino]-2-oxoethyl]amino]-3-methyl-1-oxopentan-2-yl]amino]-3-methyl-1-oxopentan-2-yl]amino]-1-oxopropan-2-yl]amino]-2-oxoethyl]amino]-1-oxohexan-2-yl]amino]-1,4-dioxobutan-2-yl]amino]-3-hydroxy-1-oxopropan-2-yl]amino]-2-oxoethyl]amino]-3-methyl-1-oxobutan-2-yl]amino]-3-carboxy-1-oxopropan-2-yl]amino]-4-carboxy-1-oxobutan-2-yl]amino]-1-oxopropan-2-yl]amino]-1-oxo-3-phenylpropan-2-yl]amino]-1-oxo-3-phenylpropan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-4-methyl-1-oxopentan-2-yl]amino]-1-oxohexan-2-yl]amino]-1,5-dioxopentan-2-yl]amino]-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl]amino]-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-4-carboxy-1-oxobutan-2-yl]amino]-3-(4-hydroxyphenyl)-1-

oxopropan-2-yl]amino]-2-oxoethyl]amino]-3-hydroxy-1-oxopropan-2-yl]amino]-3-carboxy-1-oxopropan-2-yl]amino]-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl]amino]-5-carbamimidamido-1-oxopentan-2-yl]amino]-1-oxo-3-phenylpropan-2-yl]amino]-4-[[[(2S)-2-[[[(2S)-2-amino-3-carboxypropanoyl]amino]propanoyl]amino]-5-oxopentanoic acid

Reconstitution

For reconstitution, amyloid β (1-42) human peptide should be dissolved according to this method: Add a small amount of 1% NH₄OH directly to the lyophilized solid (50-100 μ l should be sufficient for 1 mg of peptide). Dilute to a concentration of 1 mg/ml or less with your buffer. Vortex gently to mix (less than 1 minute). The peptide cannot be stored long term in 1% NH₄OH, therefore it is important to immediately dilute the NH₄OH/peptide solution with PBS or other buffer to a concentration of 1 mg/ml.

Target data

[See full target information beta-Amyloid Peptide \(1-42\) \(human\)](#) 

Storage

Shipped at conditions Ambient - Can Ship with Ice

Appropriate short-term storage conditions -20°C

Appropriate long-term storage conditions -20°C

Storage information Store under desiccating conditions, The product can be stored for up to 12 months

Product promise

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
[Terms & Conditions](#).

1 product image

Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-
Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys
-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala

Chemical Structure - beta-Amyloid Peptide (1-42) (human) (ab120301)

2D chemical structure image of ab120301, beta-Amyloid Peptide (1-42) (human)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.