CD BioGlyco

SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Amyloid b-peptide (42-1) (human)

Cat. No.: X23-12-YM242

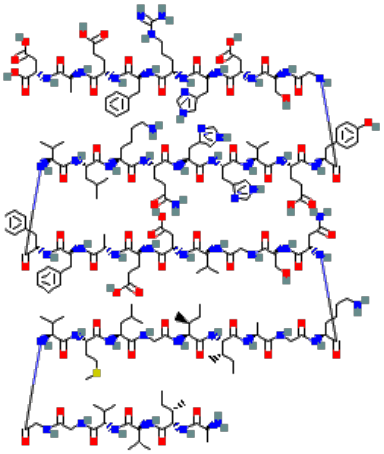
Size: 1 mg; 2 mg; 5 mg; 10 mg

CAS Number: 317366-82-8

PubChem CID: 90488838

Synonym: 317366-82-8; Amyloid beta peptide (42-1) (human)

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Amyloid b-peptide (42-1) (human) interferes with or suppresses the transmission of signals between neurons in the nervous system.
Molecular Weight	4514.08
Molecular Formula	$C_{203}H_{311}N_{55}O_{60}S$
IUPAC Name	(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-5-Amino-2-[[(2*S*)-6-amino-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[2-[[(2*S*)-2-[[(2*S*)-4-amino-2-[[(2*S*)-6-amino-2-[[2-[[(2*S*)-2-[[(2*S*, 3*S*)-2-[[(2*S*, 3*S*)-2-[[2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*)-2-[[2-[[2-[[(2*S*)-2-[[(2*S*)-2-[[(2*S*, 3*S*)-2-[[(2*S*)-2-aminopropanoyl]amino]-3-methylpentanoyl]amino]-3-methylbutanoyl]amino]-3-methylbutanoyl]amino]acetyl]amino]acetyl]amino]-3-methylbutanoyl]amino]-4-methylsulfanylbutanoyl]amino]-4-methylpentanoyl]amino]acetyl]amino]-3-methylpentanoyl]amino]-3-methylpentanoyl]amino]propanoyl]amino]acetyl]amino]hexanoyl]amino]-4-oxobutanoyl]amino]-3-hydroxypropanoyl]amino]acetyl]amino]-3-methylbutanoyl]amino]-3-carboxypropanoyl]amino]-4-carboxybutanoyl]amino]propanoyl]amino]-3-phenylpropanoyl]amino]-3-phenylpropanoyl]amino]-3-methylbutanoyl]amino]-4-methylpentanoyl]amino]hexanoyl]amino]-5-oxopentanoyl]amino]-3-(1*H*-imidazol-4-yl)propanoyl]amino]-3-(1*H*-imidazol-4-yl)propanoyl]amino]-3-methylbutanoyl]amino]-4-carboxybutanoyl]amino]-3-(4-hydroxyphenyl)propanoyl]amino]acetyl]amino]-3-hydroxypropanoyl]amino]-3-carboxypropanoyl]amino]-3-(1*H*-imidazol-4-yl)propanoyl]amino]-5-carbamimidamidopentanoyl]amino]-3-phenylpropanoyl]amino]-4-c

	arboxybutanoyl]amino]propanoyl]amino]butanedioic acid
InChI	InChI=1S/C203H311N55O60S/c1-28-106(20)164(252-151(269)92-218-171(286)129(71-98(4)5)237-181(296)128(66-70-319-27)235-194(309)159(101(10)11)250-149(267)88-215-146(264)87-220-193(308)158(100(8)9)255-198(313)163(105(18)19)256-201(316)166(108(22)30-3)257-167(282)109(23)206)200(315)258-165(107(21)29-2)199(314)226-110(24)168(283)216-89-147(265)227-121(51-40-42-67-204)176(291)244-138(80-145(208)263)187(302)249-142(93-259)173(288)219-91-150(268)251-160(102(12)13)195(310)247-140(82-156(278)279)188(303)233-126(60-64-153(272)273)175(290)224-111(25)169(284)236-132(73-113-45-34-31-35-46-113)184(299)240-134(75-115-49-38-33-39-50-115)190(305)253-162(104(16)17)197(312)246-130(72-99(6)7)182(297)229-122(52-41-43-68-205)177(292)231-124(58-62-144(207)262)179(294)241-136(78-118-85-212-96-222-118)186(301)243-137(79-119-86-213-97-223-119)191(306)254-161(103(14)15)196(311)234-127(61-65-154(274)275)180(295)238-131(76-116-54-56-120(261)57-55-116)172(287)217-90-148(266)228-143(94-260)192(307)245-139(81-155(276)277)189(304)242-135(77-117-84-211-95-221-117)185(300)230-123(53-44-69-214-203(209)210)178(293)239-133(74-114-47-36-32-37-48-114)183(298)232-125(59-63-152(270)271)174(289)225-112(26)170(285)248-141(202(317)318)83-157(280)281/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, 283)(H, 217, 287)(H, 218, 286)(H, 219, 288)(H, 220, 308)(H, 224, 290)(H, 225, 289)(H, 226, 314)(H, 227, 265)(H, 228, 266)(H, 229, 297)(H, 230, 300)(H, 231, 292)(H, 232, 298)(H, 233, 303)(H, 234, 311)(H, 235, 309)(H, 236, 284)(H, 237, 296)(H, 238, 295)(H, 239, 293)(H, 240, 299)(H, 241, 294)(H, 242, 304)(H, 243, 301)(H, 244, 291)(H, 245, 307)(H, 246, 312)(H, 247, 310)(H, 248, 285)(H, 249, 302)(H, 250, 267)(H, 251, 268)(H, 252, 269)(H, 253, 305)(H, 254, 306)(H, 255, 313)(H, 256, 316)(H, 257, 282)(H, 258, 315)(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
InChI Key	QBEAMNLSDYIUGM-SIQRNXPUSA-N
Canonical SMILES	CCC(C)C(C(=O)NC(C(C)CC)C(=O)NC(C)C(=O)NCC(=O)NC(CCCCN)C(=O)NC(CC(=O)N)C(=O)NC(CO)C(=O)NCC(=O)NC(C(C)C)C(=O)NC(CC(=O)O)C(=O)NC(CCC(=O)O)C(=O)NC(C)C(=O)NC(CC1=CC=CC=C1)C(=O)NC(CC2=CC=CC=C2)C(=O)NC(C(C)C)C(=O)NC(CC(C)C)C(=O)NC(CCCCN)C(=O)NC(CCC(=O)N)C(=O)NC(CC3=CNC=N3)C(=O)NC(CC4=CNC=N4)C(=O)NC(C(C)C)C(=O)NC(CCC(=O)O)C(=O)NC(CC5=CC=C(C=C5)O)C(=O)NCC(=O)NC(CO)C(=O)NC(CC(=O)O)C(=O)NC(CC6=CNC=N6)C(=O)NC(CCCNC(=N)N)C(=O)NC(CC7=CC=CC=C7)C(=O)NC(CCC(=O)O)C(=O)NC(C)C(=O)NC(CC(=O)O)C(=O)O)NC(=O)CNC(=O)C(CC(C)C)NC(=O)C(CCSC)NC(=O)C(C(C)C)NC(=O)CNC(=O)CNC(=O)C(C(C)C)NC(=O)C(C(C)C)NC(=O)C(C(C)CC)NC(=O)C(C)N
Isomeric SMILES	CC[C@H](C)[C@@H](C(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](C)C(=O)NCC(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CO)C(=O)NCC(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC(=O)O)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](C)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CC2=CC=CC=C2)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCC(=O)N)C(=O)N[C@@H](CC3=CNC=N3)C(=O)N[C@@H](CC4=CNC=N4)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](CC5

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	=CC=C(C=C5)O)C(=O)NCC(=O)N[C@@H](CO)C(=O)N[C@@H](CC(=O)O)C(=O)N[C@@H](CC6=CNC=N6)C(=O)N[C@@H](CCCNC(=N)N)C(=O)N[C@@H](CC7=CC=CC=C7)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](C)C(=O)N[C@@H](CC(=O)O)C(=O)O)NC(=O)CNC(=O)[C@H](CC(C)C)NC(=O)[C@H](CCSC)NC(=O)[C@H](C(C)C)NC(=O)CNC(=O)CNC(=O)[C@H](C(C)C)NC(=O)[C@H](C(C)C)NC(=O)[C@H]([C@@H](C)CC)NC(=O)[C@H](C)N
Form	Lyophilized powder
Purity	>98%
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Amyloid b-peptide (42-1) (human) can be studied extensively in research to study Alzheimer's disease and related neurodegenerative disorders.
Storage	Store at -20℃, and keep desiccated.