CD BioGlyco
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Product Information

Amyloid b-peptide (1-40) (rat)

Cat. No.: X23-12-YM247

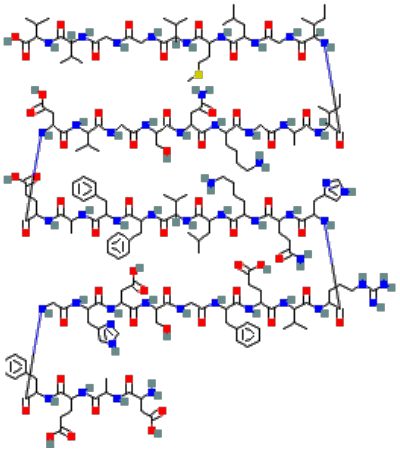
Size: 1 mg; 2 mg; 5 mg; 10 mg

CAS Number: 144409-98-3

PubChem CID: 131954565

Synonym: 144409-98-3; Amyloid beta-peptide (1-40) rat

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



Product Information

Description	Amyloid b-peptide (1-40) (rat) interferes with or suppresses the transmission of signals between neurons in the nervous system.
Molecular Weight	4233.77
Molecular Formula	$C_{190}H_{291}N_{51}O_{57}S$
IUPAC Name	5-[[1-[[2-[[1-[[1-[[1-[[2-[[1-[[1-[[1-[[1-[[5-Amino-1-[[6-amino-1-[[1-[[1-[[1-[[1-[[1-[[1-[[1-[[2-[[1-[[4-amino-1-[[6-amino-1-[[2-[[1-[[1-[[1-[[1-[[2-[[1-[[1-[[1-[[2-[[2-[[1-[(1-carboxy-2-methylpropyl)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-(1*H* -imidazol-4-yl)-1-oxopropan-2-yl]amino]-5-carbamimidamido-1-oxopentan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-4-carboxy-1-oxobutan-2- yl]amino]-1-*oxo* -3-phenylpropan-2-yl]amino]-2-oxoethyl]amino]-3-hydroxy-1-oxopropan-2-yl]amino]-3-carboxy-1-oxopropan-2-yl]amino]-3-(1*H* -imidazol-4-yl)-1-oxopropan-2-yl]amino] -2-oxoethyl]amino]-1-*oxo* -3-phenylpropan-2-yl]amino]-4-[2-[(2-amino-3-carboxypropanoyl)amino]propanoylamino]-5-oxopenta

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InChI	InChI=1S/C190H291N51O57S/c1-25-101(19)155(184(292)207-87-140(250)213-121(68-93(3)4)172(280)223-120(63-67-299-24)170(278)235-149(95(7)8)182(290)205-82-136(246)201-83-142(252)234-151(97(11)12)187(295)239-154(100(17)18)189(297)298)241-188(296)156(102(20)26-2)240-159(267)103(21)210-137(247)84-202-161(269)113(52-39-41-64-191)219-177(285)129(77-135(195)245)229-181(289)133(90-243)216-141(251)88-206-183(291)150(96(9)10)236-180(288)131(79-148(263)264)230-168(276)118(57-61-144(255)256)218-158(266)105(23)212-171(279)125(72-108-48-35-29-36-49-108)227-174(282)126(73-109-50-37-30-38-51-109)232-186(294)153(99(15)16)238-179(287)122(69-94(5)6)225-164(272)114(53-40-42-65-192)220-166(274)116(55-59-134(194)244)221-176(284)128(75-111-81-199-92-209-111)228-165(273)115(54-43-66-200-190(196)197)224-185(293)152(98(13)14)237-169(277)119(58-62-145(257)258)222-173(281)124(71-107-46-33-28-34-47-107)214-138(248)86-204-163(271)132(89-242)233-178(286)130(78-147(261)262)231-175(283)127(74-110-80-198-91-208-110)215-139(249)85-203-162(270)123(70-106-44-31-27-32-45-106)226-167(275)117(56-60-143(253)254)217-157(265)104(22)211-160(268)112(193)76-146(259)260/h27-38, 44-51, 80-81, 91-105, 112-133, 149-156, 242-243H, 25-26, 39-43, 52-79, 82-90, 191-193H2, 1-24H3, (H2, 194, 244)(H2, 195, 245)(H, 198, 208)(H, 199, 209)(H, 201, 246)(H, 202, 269)(H, 203, 270)(H, 204, 271)(H, 205, 290)(H, 206, 291)(H, 207, 292)(H, 210, 247)(H, 211, 268)(H, 212, 279)(H, 213, 250)(H, 214, 248)(H, 215, 249)(H, 216, 251)(H, 217, 265)(H, 218, 266)(H, 219, 285)(H, 220, 274)(H, 221, 284)(H, 222, 281)(H, 223, 280)(H, 224, 293)(H, 225, 272)(H, 226, 275)(H, 227, 282)(H, 228, 273)(H, 229, 289)(H, 230, 276)(H, 231, 283)(H, 232, 294)(H, 233, 286)(H, 234, 252)(H, 235, 278)(H, 236, 288)(H, 237, 277)(H, 238, 287)(H, 239, 295)(H, 240, 267)(H, 241, 296)(H, 253, 254)(H, 255, 256)(H, 257, 258)(H, 259, 260)(H, 261, 262)(H, 263, 264)(H, 297, 298)(H4, 196, 197, 200)
InChI Key	KBNPAOMRSZGNFV-UHFFFAOYSA-N
Canonical SMILES	CCC(C)C(C(=O)NC(C(C)CC)C(=O)NCC(=O)NC(CC(C)C)C(=O)NC(CCSC)C(=O)NC(C(C)C)C(=O)NCC(=O)NCC(=O)NC(C(C)C)C(=O)NC(C(C)C)C(=O)O)NC(=O)C(C)NC(=O)CNC(=O)C(CCCCN)NC(=O)C(CC(=O)N)NC(=O)C(CO)NC(=O)CNC(=O)C(C(C)C)NC(=O)C(CC(=O)O)NC(=O)C(CCC(=O)O)NC(=O)C(C)NC(=O)C(CC1=CC=CC=C1)NC(=O)C(CC2=CC=CC=C2)NC(=O)C(C(C)C)NC(=O)C(CC(C)C)NC(=O)C(CCCCN)NC(=O)C(CCC(=O)N)NC(=O)C(CC3=CNC=N3)NC(=O)C(CCCNC(=N)N)NC(=O)C(C(C)C)NC(=O)C(CCC(=O)O)NC(=O)C(CC4=CC=CC=C4)NC(=O)CNC(=O)C(CO)NC(=O)C(CC(=O)O)NC(=O)C(CC5=CNC=N5)NC(=O)CNC(=O)C(CC6=CC=CC=C6)NC(=O)C(CCC(=O)O)NC(=O)C(C)NC(=O)C(CC(=O)O)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 (1-40) (rat) can be administered to rat models to induce amyloid aggregation, enabling researchers to study the resulting effects on neuronal function and viability.
Storage	Store at -20℃, and keep desiccated.