

Product Information

Amyloid b-peptide (10-20) (human)

Cat. No.: X23-12-YM243

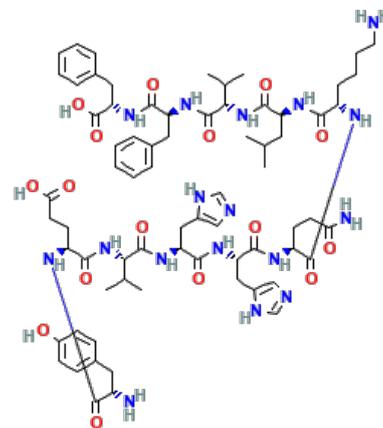
Size: 1 mg; 2 mg; 5 mg; 10 mg

CAS Number: 152286-31-2

PubChem CID: 71308529

Synonym: 152286-31-2; L-Tyrosyl-L-alpha-glutamyl-L-valyl-L-histidyl-L-histidyl-L-glutamyl-L-lysyl-L-leucyl-L-valyl-L-phenylalanyl-L-phenylalanine

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



Product Information

Description	Amyloid b-peptide (10-20) (human) interferes with or suppresses the transmission of signals between neurons in the nervous system.
Molecular Weight	1446.67
Molecular Formula	C ₇₁ H ₉₉ N ₁₇ O ₁₆
IUPAC Name	(4S)-5-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-5-Amino-1-[[[(2S)-6-amino-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(1S)-1-carboxy-2-phenylethyl]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-5-yl)-1-oxopropan-2-yl]amino]-3-(1H-imidazol-5-yl)-1-oxopropan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-4-[[[(2S)-2-amino-3-(4-hydroxyphenyl)propanoyl]amino]-5-oxopentanoic acid
InChI	InChI=1S/C71H99N17O16/c1-39(2)29-52(68(100)88-60(41(5)6)69(101)84-53(31-42-15-9-7-10-16-42)65(97)86-56(71(103)104)32-43-17-11-8-12-18-43)82-62(94)49(19-13-14-28-72)80-63(95)50(24-26-57(74)90)81-66(98)54(33-45-35-75-37-77-45)83-67(99)55(34-46-36-76-38-78-46)85-70(102)59(40(3)4)87-64(96)51(25-27-58(91)92)79-61(93)48(73)30-44-20-22-47(89)23-21-44/h7-12, 15-18, 20-23, 35-41, 48-56, 59-60, 89H, 13-14, 19, 24-34, 72-73H2, 1-6H3, (H2, 74, 90)(H, 75, 77)(H, 76, 78)(H, 79, 93)(H, 80, 95)(H, 81, 98)(H, 82, 94)(H, 83, 99)(H, 84, 101)(H, 85, 102)(H, 86, 97)(H, 87, 96)(H, 88, 100)(H, 91, 92)(H, 103, 104)/t48-, 49-, 50-, 51-, 52-, 53-, 54-, 55-, 56-, 59-, 60-/m0/s1
InChI Key	VCLPDRBVMCWMCN-JQNWNMVCVSA-N
Canonical SMILES	CC(C)CC(C(=O)NC(C(C)C)C(=O)NC(CC1=CC=CC=C1)C(=O)NC(CC2=CC=CC=C2)C(=O)O)NC(=O)C(CCCCN)NC(=O)C(CCC(=O)N)NC(=O)C(CC3=CN=CN3)NC(=O)C(CC4=CN=CN4)NC(=O)C(C



C)C)NC(=O)C(CCC(=O)O)NC(=O)C(CC5=CC=C(C=C5)O)N

Isomeric SMILES

CC(C)C[C@@H](C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CC2=CC=CC=C2)C(=O)O)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CCC(=O)N)NC(=O)[C@H](CC3=CN=CN3)NC(=O)[C@H](CC4=CN=CN4)NC(=O)[C@H](C(C)C)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H](CC5=CC=C(C=C5)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 (10-20) (human) can be used to induce amyloid aggregation in cell cultures or animal models.

Storage Store at -20°C, and keep desiccated.