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DATASHEET

β-Amyloid Peptide (42-1) (human)

Product overview

Name	β-Amyloid Peptide (42-1) (human)
Cat No	HB9159
Biological description	Inactive control peptide for β-Amyloid Peptide (1-42).
Alternative names	Aβ42-1
Biological action	Peptide
Purity	>95%
Description	β-Amyloid Peptide (1-42) inactive control.

Biological Data

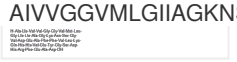
Application notes	Please see our Amyloid Beta Protocol

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in 1.0% NH4OH
Handling	Please note that this product is supplied as a lyophilized solid and may be very hard to visualize. Amyloid beta peptides are prone to aggregation and as such, there are a variety of published methods for handling amyloid beta peptides. We recommend using NH4OH with this product - you should use 1.0% NH4OH as the solvent followed by buffer (for example 1X PBS). 1. Add 1.0% NH4OH directly to the lyophilized peptide (~70-80 µl for 1mg of peptide). Do not store the peptide in 1.0% NH4OH. 2. Immediately dilute your solution to a concentration of ~1mg/mL or less with 1X PBS or alternative buffer. 3. Vortex gently to mix (less than 1 minute). Note: This method may not completely remove pre-aggregates. Vortexing may encourage seeding and further aggregation of the peptide.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	AIVVGGVMLGIIAGKNSGVDEAFFVLKQHHVEYGSDHRFEAD
Molecular Weight	4514.08

Chemical name	AIVVGGVMLGIIAGKNSGVDEAFFVLKQHHVEYGSDHRFEAD
Chemical structure	
Molecular Formula	$C_{203}H_{311}N_{55}O_{60}S$
Sequence (one letter)	AIVVGGVMLGIIAGKNSGVDEAFFVLKQHHVEYGSDHRFEAD
Modifications	N/A
CAS Number	317366-82-8
PubChem identifier	71581486
SMILES	CCC(C)[C@@H](C(=O)N[C@@H](C(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=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(C)CC)NC(=O)[C@H](C)N
InChiKey	QBEAMNLSDYIUGM-TYMWQTOHSA-N
Appearance	Lyophilized White solid
Protein length	42

References

Amyloidogenicity and toxicity of the reverse and scrambled variants of amyloid-β 1-42.

Vadukul et al (2017) FEBS Lett. 591(5)

PubMedID 28185264