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## DATASHEET

### β-Amyloid Peptide (42-1) (human)

#### Product overview

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

#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in 1.0% NH4OH
<b>Handling</b>	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 1 mg 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

<b>Chemical name</b>	AIVVGGVMLGIIAGKNSGVDEAFFVLKQHHVEYGS DHRFEAD
<b>Molecular Weight</b>	4514.08
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>203</sub> H <sub>311</sub> N <sub>55</sub> O <sub>60</sub> S
<b>Sequence (one letter)</b>	AIVVGGVMLGIIAGKNSGVDEAFFVLKQHHVEYGS DHRFEAD
<b>Modifications</b>	N/A
<b>CAS Number</b>	317366-82-8
<b>PubChem identifier</b>	71581486
<b>SMILES</b>	CCC(C)[C@@H](C(=O)N[C@@H](C(C)C)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

**InChiKey**  
**Appearance**  
**Protein length**

C(=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)C)NC(=O)[C@H](C(C)CC)NC(=O)[C@H](C)N  
QBTEAMNLSDIUGM-TYMWQTOHSA-N  
Lyophilized White solid  
42

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## References

### **Amyloidogenicity and toxicity of the reverse and scrambled variants of amyloid- $\beta$ 1-42.**

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

**PubMedID** [28185264](#)

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