



Product Data Sheet

Product Name:	[Lys ²²]- β -Amyloid (1-42), Italian Mutation	
Catalog Number:	AS-62148 (0.5 mg)	Lot Number: See label on vial
Sequence:	H-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Lys-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH (3-letter code) DAEFRHDSGYEVHHQKLVFFAKDVGSNKGAIIGLMVGGVVIA (1-letter code)	
Molecular Weight:	4513.2	
Peptide Purity:	>95%	
Appearance:	Lyophilized white powder	

Peptide Reconstitution: [Lys²²]- β -(1-42), Italian Mutation peptide is soluble in water.

Storage: [Lys²²]- β -Amyloid (1-42), Italian Mutation peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at -20°C or lower. Reconstituted peptide can be aliquoted and stored at -20°C or lower.

Description: This is amino acids 1 to 42 fragment of the β -Amyloid peptide, with lysine substituted for glutamic acid at position 22 found in Italian families with Alzheimer's disease. The Italian mutation of β -Amyloid (1-42) (E22K) aggregates more rapidly and with more potent neurotoxicity than wild-type β -Amyloid (1-42). The formation of a salt bridge between Lys²² and Asp²³ in the minor confirmation might be a reason why E22K is more pathogenic than wild-type β -Amyloid (1-42). Ref: Masuda, Y. et al. *Bioorg. Med. Chem.* **13**, 6803 (2005).

Related Products:

Name	Cat #	Size
[Gly ²²]- β -Amyloid (1-42), Arctic Mutation DAEFRHDSGYEVHHQKLVFFAGDVGSNKGAIIGLMVGGVVIA	AS-61967-05	0.5 mg
[Gln ²²]- β -Amyloid (1-42), E22Q Dutch Mutation DAEFRHDSGYEVHHQKLVFFAQDVGSNKGAIIGLMVGGVVIA	AS-62142	0.5 mg
[Gly ²¹]- β -Amyloid (1-42), A21G Flemish Mutation DAEFRHDSGYEVHHQKLVFFGEDVGSNKGAIIGLMVGGVVIA	AS-63704	0.5 mg
[Asn ²³]- β -amyloid (1-42), Iowa Mutation DAEFRHDSGYEVHHQKLVFFAENVGSNKGAIIGLMVGGVVIA	AS-63705	0.5 mg

[Asn⁷]- β -Amyloid (1-42), Tottori-Japanese Mutation
DAEFRHNSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA

AS-63324 0.5 mg

[Arg⁶]- β -Amyloid (1-42), English Mutation
DAEFRRDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA

AS-63323 0.5 mg

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