

# PE-01AFB95-P

## A-beta (11-22) Peptide Powder

12-mer peptide based on APP



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Amyloid beta A4 protein
<b>Name Alias:</b>	A4; ABPP; AD1; Alzheimer disease amyloid protein; Alzheimer's disease amyloid protein; Amyloid beta (A4) precursor protein; APPI; Beta-amyloid protein 40; Beta-amyloid protein 42; C31; C83; Cerebral vascular amyloid peptide; CVAP; Gamma-CTF(50); Gamma-CTF(57); Gamma-CTF(59); P3(40); P3(42); Peptidase nexin-II; PN-II; PreA4; Protease nexin-II; Soluble APP-alpha (S-APP-alpha); Soluble APP-beta (S-APP-beta)
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P05067

### Peptide Structure

<b>Peptide Name:</b>	A-beta (11-22)
<b>Peptide Origin:</b>	Internal sequence in target protein.
<b>Peptide Sequence Location:</b>	E682-E693
<b>Peptide Sequence:</b>	EVHHQKLVFFAE
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Acid
<b>Peptide Modifications Other:</b>	None

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1483.7
<b>% Peptide Purity:</b>	> 95
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KSP01CCT
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20°C
<b>Storage Stability:</b>	Over 1 year at -20°C

### Applications

<b>Product Use:</b>	<p>Simulation results indicate that this peptide is one of 3 sites that may play a crucial role in determining the aggregation tendency and the fibrillar structure of Abeta(42).</p> <p>Increasing evidence implicates interactions between Abeta peptide and lipids in the development of Alzheimer's disease. A study on the 11-22 amphiphilic domain of Abeta which contains most of the charged residues of the N-terminal domain of Abeta indicate that the peptide charge, and more precisely the protonation state of histidines 13 and/or 14, is important for the interaction with lipids.</p>
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This product is for in vitro research use only and is not intended for use in humans or animals.

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