

**Product Name** : Amyloid beta-peptide(25-35)  
**Synonyms** : A $\beta$ 25-35,  $\beta$ -Amyloid peptide(25-35)  
**Cat No.** : M22566  
**CAS Number** : 131602-53-4  
**Molecular Formula** : C<sub>45</sub>H<sub>81</sub>N<sub>13</sub>O<sub>14</sub>S  
**Formula Weight** : 1060.27  
**Chemical Name** : —

**Description** : Amyloid beta-peptide(25-35) is the fragment A $\beta$ (25-35) of the Alzheimer's amyloid  $\beta$ -peptide. Which has shown neurotoxic activities in cultured cells. The amino acid sequence of A $\beta$ (25-35) peptide is NH<sub>2</sub>-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-COOH, where the first Gly represents the amino acid 25 and the last Met represents the amino acid 35 and it is also investigated in gel state for the first time. Amyloid beta-peptide(25-35) induces apoptotic effects on isolated brain mitochondria and the redox state of methionine-35, plays a key role in the induction of programmed cellular death pathways and toxic events. Comparative studies are also carried out using vibrational absorption and ECD. The conformational preference of A $\beta$ (25-35) peptide film is also investigated using vibrational absorption and VCD spectroscopy. The Alzheimer's disease (AD) model group present with spatial learning and memory impairments. CDS and donepezil administration significantly ameliorate the A $\beta$ 25–35 peptide-induced memory impairment in both Morris water maze (P?

**Pathway** : Membrane Transporter/Ion Channel

**Target** : Beta Amyloid

**Receptor** : Amyloid- $\beta$

**Solubility** : DMSO:97 mg/mL (91.49mM; Need ultrasonic); H<sub>2</sub>O:3.33 mg/mL (3.14 mM; Need ultrasonic)

**SMILES** : CC[C@H](C)[C@H](NC(=O)[C@@H](NC(=O)[C@H](C)NC(=O)CNC(=O)[C@H](CCCCN)NC(=O)[C@H](CC(N)=O)NC(=O)[C@H](CO)NC(=O)CN)[C@@H](C)CC)C(=O)NCC(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCSC)C(=O)O

**Storage** : (-20°C)

**Stability** :  $\geq 2$  years

**Reference** :

1. D'Ursi AM, et al. Solution structure of amyloid beta-peptide (25-35) in different media. J Med Chem. 2004 Aug 12;47(17):4231-8.