
Product Data Sheet

Product Name: Beta-Sheet Breaker Peptide iA β 5

Cat. No.: GP10101

Chemical Properties

Cas. No. 182912-74-9

SMILES N[C@@H](CC(C)C)C(N1[C@@H](CCC1)C(N[C@@H](CC2=CC=CC=C2)C(N[C@@H](CC3=CC=CC=C3)C(N[C@@H](CC(O)=O)C(O)=O)=O)=O)=O

Formula C₃₃H₄₃N₅O₈ M.Wt 637.73Solubility \geq 63.7mg/mL in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Beta-Sheet Breaker Peptide iA β 5 (C₃₃H₄₃N₅O₈), with the sequence H-Leu-Pro-Phe-Phe-Asp-OH, has been shown to inhibit amyloidogenesis in rat brain models. Research showed that beta-sheet breaker peptide significantly reduces amyloid beta-protein deposition in vivo and completely blocks the formation of amyloid fibrils in a rat brain model of amyloidosis. Current evidence supports the notion that beta-amyloid deposits or Abeta intermediates may be responsible for the pathogenesis in Alzheimer's disease (AD) patients. Because of its inhibition of cerebral amyloid beta-protein deposition, Beta-Sheet Breaker Peptide seems to be an important target for Alzheimer's disease therapy.

References:

1. C. Soto, E.M. Sigurdsson, L. Morelli, R.A. Kumar, E.M. Castano, and B. Frangione, Nat. Med., 4, 822 (1998) (Original; Pharmacol.)
2. MA Chacon, MI Barria, C Soto and NC Inestrosa. Beta-sheet breaker peptide prevents Abeta-induced spatial memory impairments with partial reduction of amyloid deposits.

Caution: Product has not been fully validated for medical applications. For research use only.

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