

## Product Data Sheet

Product Name: OM99-2  
Cat. No.: GA23320

### Chemical Properties

Cas. No. 314266-76-7

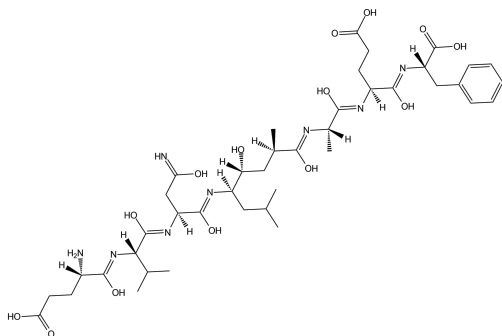
Formula  $C_{41}H_{64}N_8O_{14}$  M.Wt 893.01

Solubility Soluble 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

OM99-2, an eight-residue peptidomimetic, is a potent inhibitor of brain Memapsin 2 with a  $K_i$  value of 9.58nM [1]. OM99-2 has been used as a lead compound for rational drug design, through site modification to construct BACE-1 inhibitors and to screen for potent multi-target neuroprotective agents [2]. OM99-2 was used as a model compound to determine the protonation state of the active site of  $\beta$ -secretase through molecular dynamics simulations and molecular docking experiments [3].

### References:

- [1] Ghosh A K, Shin D, Downs D, et al. Design of potent inhibitors for human brain memapsin 2 ( $\beta$ -secretase)[J]. Journal of the American Chemical Society, 2000, 122(14): 3522-3523.  
[2] Zhang W T, Jiang F C, Liu D, et al. Pharmacophore hypothesis generation of BACE-1 inhibitors and pharmacophore-driven identification of potent multi-target neuroprotective agents[J]. Medicinal

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

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Chemistry Research, 2012, 21(11): 3656-3668.

[3] Park H, Lee S. Determination of the active site protonation state of  $\beta$ -secretase from molecular dynamics simulation and docking experiment: implications for structure-based inhibitor design[J]. Journal of the American Chemical Society, 2003, 125(52): 16416-16422.

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