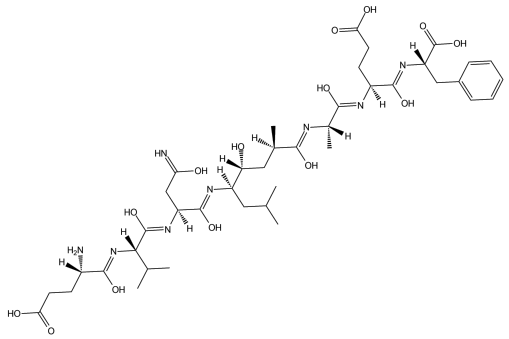
Product Data Sheet

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 ¡ 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 β-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 (β-secretase)[J]. Journal of the American Chemical Society, 2000, 122(14): 3522-3523.
[2] Zhang W T, Jiang F C, Liu D, et al. Pharmacopore hypothesis generation of BACE-1 inhibitors and pharmacophore-driven identification of potent multi-target neuroprotective agents[J]. Medicinal

Product Data Sheet

Chemistry Research, 2012, 21(11): 3656-3668.
[3] Park H, Lee S. Determination of the active site protonation state of β-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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA