
Product Data Sheet

Product Name: GLYX 13
 Cat. No.: GC14121

Chemical Properties

Cas. No. 117928-94-6

Chemical Name (S)-N-((2S,3R)-1-amino-3-hydroxy-1-oxobutan-2-yl)-1-((S)-1-((2S,3R)-2-amino-3-hydroxybutanoyl)pyrrolidine-2-carbonyl)pyrrolidine-2-carboxamide

SMILES O=C([C@H]1N(C([C@H]([C@@H](C)O)N)=O)CCC1)N2[C@H](C(N[C@H](C(N)=O)[C@@H](C)O)=O)CCC2

Formula $C_{18}H_{31}N_5O_6$ M.Wt 413.47

Solubility DMF: 25 mg/ml, DMSO: 15 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): 5 mg/ml 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

Rapastinel (GLYX-13) is an N-methyl-D-aspartate receptor (NMDAR) modulator that has characteristics of a glycine site partial agonist. Target: NMDARapastinel is a robust cognitive enhancer and facilitates hippocampal long-term potentiation (LTP) of synaptic transmission in slices.

References:

[1]. Burgdorf J, et al. The long-lasting antidepressant effects of rapastinel (GLYX-13) are associated with a metaplasticity process in the medial prefrontal cortex and hippocampus. *Neuroscience*. 2015 Nov 12;308:202-11.

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

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