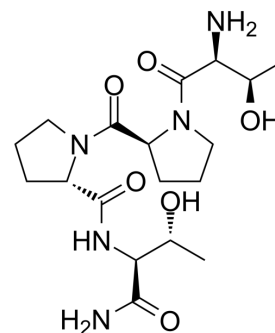


## Rapastinel

Cat. No.:	HY-16728
CAS No.:	117928-94-6
Molecular Formula:	C <sub>18</sub> H <sub>31</sub> N <sub>5</sub> O <sub>6</sub>
Molecular Weight:	413.47
Sequence:	Thr-Pro-Pro-Thr-NH <sub>2</sub>
Sequence Shortening:	TPPT-NH <sub>2</sub>
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder    -20°C    3 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 32 mg/mL (77.39 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.4186 mL	12.0928 mL	24.1856 mL
	5 mM		0.4837 mL	2.4186 mL	4.8371 mL
	10 mM		0.2419 mL	1.2093 mL	2.4186 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

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.

### CUSTOMER VALIDATION

- J Cell Mol Med. 2020 Aug;24(16):9287-9299.

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## REFERENCES

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[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.

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

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