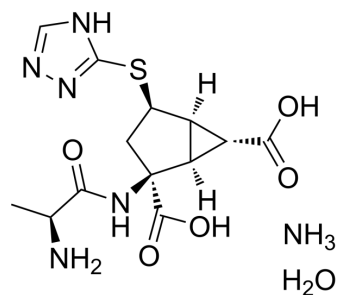


## LY2979165

<b>Cat. No.:</b>	HY-13239
<b>CAS No.:</b>	1311385-32-6
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>22</sub> N <sub>6</sub> O <sub>6</sub> S
<b>Molecular Weight:</b>	390.42
<b>Target:</b>	mGluR
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 50 mg/mL (128.07 mM)  
 DMSO : < 1 mg/mL (insoluble or slightly soluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5613 mL	12.8067 mL	25.6134 mL
	5 mM	0.5123 mL	2.5613 mL	5.1227 mL
	10 mM	0.2561 mL	1.2807 mL	2.5613 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 50 mg/mL (128.07 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 0.1 mg/mL (0.26 mM); Clear solution

### BIOLOGICAL ACTIVITY

<b>Description</b>	LY2979165 is the alanine proagent of 2812223, a selective and potent orthosteric mGlu2 receptor agonist <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	mGlu2 Receptor
<b>In Vivo</b>	LY2979165 attenuated the ketamine-evoked BOLD pHMRI signal in vivo <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Juliet McColm , et al. Evaluation of Single and Multiple Doses of a Novel mGlu2 Agonist, a Potential Antipsychotic Therapy, in Healthy Subjects. Br J Clin Pharmacol. 2017 Aug;83(8):1654-1667.

[2]. Mitul A Mehta, et al. Group II metabotropic glutamate receptor agonist prodrugs LY2979165 and LY2140023 attenuate the functional imaging response to ketamine in healthy subjects. Psychopharmacology (Berl). 2018 Jul;235(7):1875-1886.

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

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