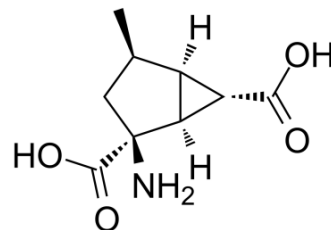


## LY 541850

Cat. No.:	HY-103551A
CAS No.:	852679-76-6
Molecular Formula:	C <sub>9</sub> H <sub>13</sub> NO <sub>4</sub>
Molecular Weight:	199.2
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	LY 541850 is claimed from human ionotropic and metabotropic glutamate (mGlu) receptors expressed in non-neuronal cells. LY541850 is a selective orthosteric mGlu2 agonist and mGlu3 antagonist with IC <sub>50</sub> values of 0.161 μM and 0.038 μM, respectively <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	mGluR2 0.161 μM (IC <sub>50</sub> )	mGluR3 1.05 μM (IC <sub>50</sub> )
<b>In Vivo</b>	<p>LY 541850 (intraperitoneal injection; 10 mg/kg-300 mg/kg; 15 min prior) induces a concentration-dependent inhibition of the TAP evoked fEPSPs in CA1-SLM in 10-16 week old (EC<sub>50</sub> 42 nM) in CD-1 mice<sup>[1]</sup>.</p> <p>LY 541850 (intraperitoneal injection; 10 mg/kg-300 mg/kg; 30 min prior) reduces the increased locomotor activity of phencyclidine and amphetamine in a dose-dependent manner in male ICR mice<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

### REFERENCES

[1]. Hanna L, et al. Differentiating the roles of mGlu2 and mGlu3 receptors using LY541850, an mGlu2 agonist/mGlu3 antagonist. *Neuropharmacology*. 2013 Mar;66:114-21.

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

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