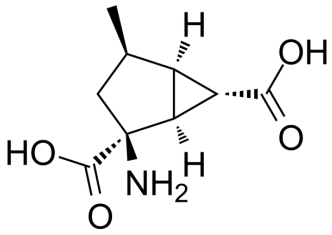
LY 541850

Cat. No.:	HY-103551A
CAS No.:	852679-76-6
Molecular Formula:	$C_9H_{13}NO_4$
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

Description	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_{50} values of 0.161 μM and 0.038 μM, respectively[1].	
IC_{50} & Target	mGluR2 0.161 μM (IC_{50})	mGluR3 1.05 μM (IC_{50})
In Vivo	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_{50} 42 nM) in CD-1 mice[1]. 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[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

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.

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