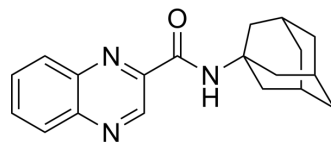


NPS 2390

Cat. No.:	HY-11095
CAS No.:	226878-01-9
Molecular Formula:	C ₁₉ H ₂₁ N ₃ O
Molecular Weight:	307.39
Target:	mGluR; CaSR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.25 mg/mL (20.33 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.2532 mL	16.2660 mL	32.5320 mL
5 mM	0.6506 mL	3.2532 mL	6.5064 mL
10 mM	0.3253 mL	1.6266 mL	3.2532 mL

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

BIOLOGICAL ACTIVITY

Description

NPS 2390 is a noncompetitive antagonist of mGluR1 and mGluR5^[1]. NPS 2390 is also a potent CaSR (calcium-sensing receptor) inhibitor^{[2][3]}.

IC₅₀ & Target

mGluR1	mGluR5
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REFERENCES

- [1]. Vanejevs M, et al. Positive and negative modulation of group I metabotropic glutamate receptors. *J Med Chem.* 2008 Feb 14;51(3):634-47.
- [2]. Peng X, et al. NPS2390, a Selective Calcium-sensing Receptor Antagonist Controls the Phenotypic Modulation of Hypoxic Human Pulmonary Arterial Smooth Muscle Cells by Regulating Autophagy. *J Transl Int Med.* 2019 Jul 11;7(2):59-68.
- [3]. Xue Z, et al. Calcium-sensing receptor antagonist NPS2390 attenuates neuronal apoptosis through intrinsic pathway following traumatic brain injury in rats. *Biochem Biophys Res Commun.* 2017 Apr 29;486(2):589-594.

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

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