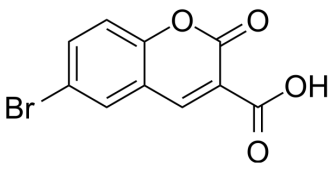
UBP608

Cat. No.:	HY-100667
CAS No.:	2199-87-3
Molecular Formula:	$C_{10}H_5BrO_4$
Molecular Weight:	269.05
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (929.20 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7168 mL	18.5839 mL	37.1678 mL
	5 mM	0.7434 mL	3.7168 mL	7.4336 mL
	10 mM	0.3717 mL	1.8584 mL	3.7168 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UBP608 is a potent N-Methyl-D-aspartate receptors (NMDARs) negative allosteric modulator. UBP608 has the potential for the research of neurological disorders[1].

IC_{50} & Target

NMDA Receptor

In Vitro

UBP608 (100 μM) shows inhibitory activity with the inhibition rate of 89.3%, 63.5%, 56.1%, 23.6% for GluN1/GluN2A, GluN1/GluN2B, GluN1/GluN2C, GluN1/GluN2D, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Irvine MW, et al. Coumarin-3-carboxylic acid derivatives as potentiators and inhibitors of recombinant and native N-methyl-D-aspartate receptors. Neurochem Int. 2012 Sep;61(4):593-600.

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