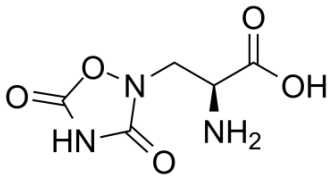
Quisqualic acid

Cat. No.:	HY-12597
CAS No.:	52809-07-1
Molecular Formula:	$C_5H_7N_3O_5$
Molecular Weight:	189.13
Target:	iGluR; mGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Quisqualic acid (L-Quisqualic acid), a natural analog of glutamate, is a potent and pan two subsets (**iGluR** and **mGluR**) of excitatory amino acid (EAA) agonist with an **EC_{50}** of 45 nM and a **K_i** of 10 nM for mGluR1R. Quisqualic acid is isolated from the fruits of Quisqualis chinensis[1][2].			
IC_{50} & Target	mGluR1R 45 nM (EC50)	mGluR1R 10 nM (Ki)	mGluR2R 108 μM (IC_{50})	mGluR2R 113 μM (Ki)
	mGluR4R 593 μM (IC_{50})	mGluR4R 112 μM (Ki)		
In Vitro	Quisqualic acid is an agonist of AMPA and metabotropic glutamate receptors. Quisqualic acid activates mGluR2R (EC_{50}=108 μM; K_i=113 μM) and mGluR4R (EC_{50}=593 μM; K_i=112 μM)[1].			

REFERENCES

[1]. Hugues-Olivier Bertrand, et al. Common and Selective Molecular Determinants Involved in Metabotopic Glutamate Receptor Agonist Activity. J Med Chem. 2002 Jul 18;45(15):3171-83.

[2]. H Bräuner-Osborne, et al. Ligands for Glutamate Receptors: Design and Therapeutic Prospects. J Med Chem. 2000 Jul 13;43(14):2609-45.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA