Data Sheet (Cat.No.T84434)

TargetMol

Kynurenic Acid hydrate

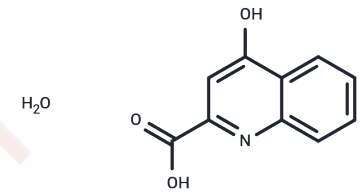
Chemical Properties

CAS No. : 345909-35-5

Formula: C10H9NO4

Molecular Weight: 207.185

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Kynurenic acid, an active metabolite of tryptophan, is synthesized through a kynurenine intermediate by kynurenine aminotransferases (KATs). It acts as an antagonist of both NMDA and AMPA receptors, as well as α7 nicotinic acetylcholine receptors (nAChRs; EC50s = 235, 101, and 7 μM, respectively), and functions as an agonist for the aryl hydrocarbon receptor (AhR) and G protein-coupled receptor 35 (GPR35; EC50s = 1.4 and 39 μM, respectively). In a neonatal rat model of cerebral hypoxic-ischemia, induced by carotid artery ligation, administration of kynurenic acid at 300 mg/kg prevents weight loss in the lesioned hemisphere. Additionally, at concentrations of 1 and 5 mg/ml, it protects against neurodegeneration in the rhabdomere of the eye in an Htt93QtransgenicDrosophila model of Huntington's disease. Elevated levels of kynurenic acid in the cerebrospinal fluid have been observed in patients with schizophrenia.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8265 mL	24.1324 mL	48.2649 mL
5 mM	0.9653 mL	4.8265 mL	9.653 mL
10 mM	0.4826 mL	2.4132 mL	4.8265 mL
50 mM	0.0965 mL	0.4826 mL	0.9653 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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