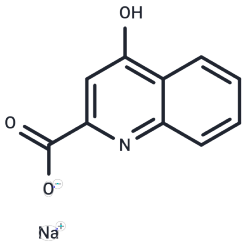
Data Sheet (Cat.No.T22892)

TargetMol

Kynurenic acid sodium

Chemical Properties



CAS No. : 2439-02-3

Formula: C10H6NNaO3

Molecular Weight: 211.15

Storage: Keep away from moisture,Store under nitrogen,Store at low temperature
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 sodium salt is an endogenous tryptophan metabolite that acts as a broad-spectrum antagonist targeting ionotropic glutamate receptors (NMDA), other glutamate receptors, and the α7 nicotinic acetylcholine receptor, while also functioning as a potent agonist for the G-protein coupled receptor GPR35/CXCR8.
Targets(IC50)	Apoptosis,Endogenous Metabolite,CXCR,GPCR,iGluR
In vitro	**Methods**: Corneal epithelial cells and conjunctival epithelial cells were treated with Kynurenic acid sodium (1-100 μM, 24-48 hours), and cell viability was determined by MTT assay. **Results**: Kynurenic acid sodium caused a concentration-dependent decrease in the metabolic activity of these cells. [1]

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 40 mg/mL (189.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.47 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.736 mL	23.6798 mL	47.3597 mL
5 mM	0.9472 mL	4.736 mL	9.4719 mL
10 mM	0.4736 mL	2.368 mL	4.736 mL
50 mM	0.0947 mL	0.4736 mL	0.9472 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.

Reference

Matysik-Woźniak A, et al. Kynurenic Acid Accelerates Healing of Corneal Epithelium In Vitro and In Vivo. Pharmaceuticals (Basel). 2021 Jul 30;14(8):753.