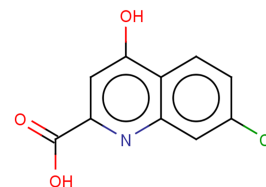


7-Chlorokynurenic acid sodium salt

Chemical Properties

CAS No. :	1263094-00-3
Formula:	C10H6ClNNaO3
Molecular Weight:	246.6
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Na
(v0)

Biological Description

Description	7-Chlorokynurenic acid sodium salt (7-CKA sodium salt) is a potent and selective antagonist of the glycine B coagonist site of the NMDA receptor (IC50: 0.56 μ M) and a potent inhibitor of the reuptake of glutamate into synaptic vesicles (Ki: 0.59 μ M).
Targets(IC50)	Others, iGluR
In vivo	Male Sprague-Dawley rats pretreated with 7-Chlorokynurenic acid sodium salt (10 nM) displayed a significant delay in the onset of both electroencephalographic and motor components (17.7 \pm 2.9 daily stimulations) of seizure activity, as documented in study [3].

Solubility Information

Solubility	H2O: 50 mg/mL (202.76 mM), Sonication is recommended. DMSO: 33.67 mg/mL (136.54 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: 1 mg/mL (4.06 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0552 mL	20.2758 mL	40.5515 mL
5 mM	0.811 mL	4.0552 mL	8.1103 mL
10 mM	0.4055 mL	2.0276 mL	4.0552 mL
50 mM	0.0811 mL	0.4055 mL	0.811 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

- Kemp JA, et al. 7-Chlorokynurenic acid is a selective antagonist at the glycine modulatory site of the N-methyl-D-aspartate receptor complex. *Proc Natl Acad Sci U S A.* 1988 Sep;85(17):6547-50.
- Yaksh TL, et al. Characterization of the Effects of L-4-Chlorokynurenine on Nociception in Rodents. *J Pain.* 2017 Oct; 18(10):1184-1196.
- Croucher MJ, et al. 7-Chlorokynurenic acid, a strychnine-insensitive glycine receptor antagonist, inhibits limbic seizurekindling. *Neurosci Lett.* 1990 Oct 2;118(1):29-32.

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