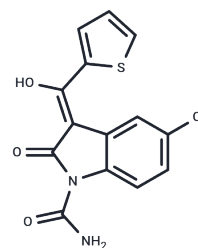


Tenidap

Chemical Properties

CAS No. :	120210-48-2
Formula:	C ₁₄ H ₉ ClN ₂ O ₃ S
Molecular Weight:	320.75
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	Tenidap (CP-66248) is a selective COX-1 and SLC26A3 inhibitor with anti-inflammatory, analgesic, and anti-rheumatic activities.
Targets(IC50)	COX,DNA/RNA Synthesis
In vitro	The human astrocytoma cell line U373 MG was incubated with 0.1-100 μ M tenidap for 30 min and then stimulated with 50 μ M C6-ceramide for 24 h. Tenidap inhibited the dose-dependent ceramide-induced IL-6 protein synthesis in U373 human astrocytoma cells.
In vivo	After sustained epilepsy (SE) induced by trichostatin in male Wistar rats, Tenidap was administered at 10 mg / kg daily for 10 days, 46.88 \pm 10.70 neurons survived in the tenidap-SE group, and 37.75 \pm 8.78 neurons survived in the tenidap-SE group, Tenidap significantly inhibited the hippocampal expression of COX-2 in the hippocampus, especially in the CA3 region.[3]

Solubility Information

Solubility	DMSO: 20 mg/mL (62.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1177 mL	15.5885 mL	31.1769 mL
5 mM	0.6235 mL	3.1177 mL	6.2354 mL
10 mM	0.3118 mL	1.5588 mL	3.1177 mL
50 mM	0.0624 mL	0.3118 mL	0.6235 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

- Kirchner T, et al. Evaluation of the antiinflammatory activity of a dual cyclooxygenase-2 selective/5-lipoxygenase inhibitor, RWJ 63556, in a canine model of inflammation. *J Pharmacol Exp Ther.* 1997 Aug;282(2):1094-101.
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- Tang XH, et al. Tenidap is neuroprotective in a pilocarpine rat model of temporal lobe epilepsy. *Chin Med J (Engl).* 2013;126(10):1900-5.
- Lieb K, et al. Potent inhibition of interleukin-6 expression in a human astrocytoma cell line by tenidap. *Cell Tissue Res.* 1997 May;288(2):251-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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