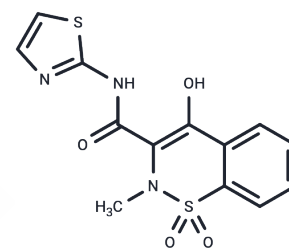


Sudoxicam

Chemical Properties

CAS No. :	34042-85-8
Formula:	C ₁₃ H ₁₁ N ₃ O ₄ S ₂
Molecular Weight:	337.37
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	Sudoxicam (4-Hydroxy-2-methyl-N-(2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide) is a reversible antagonist of COX with anti-inflammatory, anti-edema, and antipyretic properties.
Targets(IC50)	COX
In vitro	Sudoxicam binds covalently to NADPH-dependent human liver microsomes. When glutathione (GSH) was added to the microsomal incubation, about half of the covalent binding of sudoxicam was blocked by glutathione[1].
In vivo	Sudoxicam (0.1 mg/kg, p.o) significantly inhibits edema formation. In rats, Sudoxicam (1, 3.3 and 10 mg/kg; orally) effectively reduces plasma inflammation units, decreases the inflamed hind-paws swelling and restores toward normal the daily gain in body weight. Sudoxicam (3.3 mg/kg, i.p.) counteracts the pyrexia induced by the intraperitoneal injection of typhoid/paratyphoid vaccine and maintains body temperature. In the guinea pig, Sudoxicam inhibits the erythema caused by ultraviolet irradiation. The plasma half-life of Sudoxicam is 8, 13 and hours for monkey, rat and dog[2].

Solubility Information

Solubility	DMSO: 80 mg/mL (237.13 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9641 mL	14.8205 mL	29.641 mL
5 mM	0.5928 mL	2.9641 mL	5.9282 mL
10 mM	0.2964 mL	1.4821 mL	2.9641 mL
50 mM	0.0593 mL	0.2964 mL	0.5928 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

Obach RS, et al. In vitro metabolism and covalent binding of enol-carboxamide derivatives and anti-inflammatory agents sudoxicam and meloxicam: insights into the hepatotoxicity of sudoxicam. *Chem Res Toxicol.* 2008 Sep;21(9):1890-9.

Wiseman EH, et al. Anti-inflammatory and pharmacokinetic properties of sudoxicam N-(2-thiazolyl)-4-hydroxy-2-methyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide. *Biochem Pharmacol.* 1972 Sep 1;21(17):2323-34.

Zhi-Yi Zhang. Sudoxicam. *Handbook of Metabolic Pathways of Xenobiotics.* September 2014.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481