



# SZABO SCANDIC

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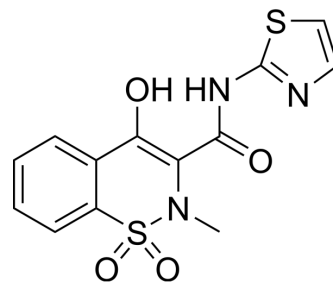
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## Sudoxicam

Cat. No.:	HY-106628
CAS No.:	34042-85-8
Molecular Formula:	C <sub>13</sub> H <sub>11</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub>
Molecular Weight:	337.37
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 83.33 mg/mL (247.00 mM; ultrasonic and warming and heat to 80°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9641 mL	14.8205 mL	29.6410 mL
	5 mM		0.5928 mL	2.9641 mL	5.9282 mL
	10 mM		0.2964 mL	1.4821 mL	2.9641 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

Description	Sudoxicam is a reversible and orally active COX antagonist and a non-steroidal anti-inflammatory drug (NSAID) from the enol-carboxamide class. Sudoxicam has potent anti-inflammatory, anti-edema and antipyretic activity <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	COX <sup>[3]</sup>
In Vitro	<p>Sudoxicam demonstrates NADPH-dependent covalent binding to human liver microsomes. With addition of glutathione (GSH) in microsomal incubations, about half of the covalent incorporation of Sudoxicam is blocked by addition of GSH<sup>[1]</sup>. Metabolite identification studies on [14C]-Sudoxicam in NADPH-supplemented human liver microsomes indicated that the primary route of metabolism involved a P450-mediated thiazole ring scission to the corresponding acylthiourea metabolite (S3), a well-established pro-toxin<sup>[1]</sup>.</p> <p>In vitro, Sudoxicam underwent the oxidative thiazole-open biotransformation, resulting in the formation of an acylthiourea and the subsequent hydroxylated metabolite<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	Sudoxicam (1-10 mg/kg; oral administration; daily; for 7 days; rats) treatment effective reduces plasma inflammation units,

reduces the swelling of inflamed hind-paws and restores toward normal the daily gain in body weight<sup>[2]</sup>. In the intact rat, Sudoxicam significantly inhibited edema formation at doses as low as 0.1 mg/kg, p.o.<sup>[2]</sup>. Sudoxicam inhibits the erythema caused by ultraviolet irradiation in the guinea pig. Sudoxicam (3.3 mg/kg, i.p.) is capable of counteracting the pyrexia induced by the intraperitoneal injection of typhoid/paratyphoid vaccine in rats, maintaining body temperature about that of uninjected control rats<sup>[2]</sup>. The plasma half-life of Sudoxicam ranged between 8 hours (monkey), 13 hours (rat), and 60 hours (dog)<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rats injected with ,i>M. butyrieum <sup>[2]</sup>
Dosage:	1 mg/kg, 3.3 mg/kg, 10 mg/kg
Administration:	Oral administration; daily; for 7 days
Result:	Were both effective in reducing plasma inflammation units, in reducing the swelling of inflamed hind-paws.

## REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. Zhi-Yi Zhang. Sudoxicam. *Handbook of Metabolic Pathways of Xenobiotics*. September 2014.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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