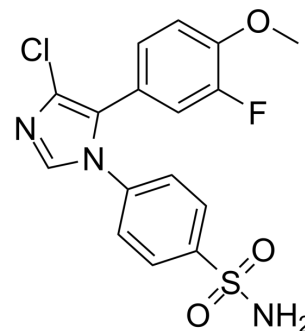


Cimicoxib

Cat. No.:	HY-100516
CAS No.:	265114-23-6
Molecular Formula:	C ₁₆ H ₁₃ ClFN ₃ O ₃ S
Molecular Weight:	381.81
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (327.39 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6191 mL	13.0955 mL	26.1910 mL
	5 mM	0.5238 mL	2.6191 mL	5.2382 mL
	10 mM	0.2619 mL	1.3096 mL	2.6191 mL

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

BIOLOGICAL ACTIVITY

Description

Cimicoxib (CX) is an orally active potent and selective COX-2 (cyclo-oxygenase-2) inhibitor. Cimicoxib exhibits promising anti-inflammatory and analgesic activity. The PK parameters of Cimicoxib in dogs given precise (2 mg/kg) and approximate doses (1.95-2.5 mg/kg) are similar^[1].

IC₅₀ & Target

COX-2

REFERENCES

[1]. Kim TW, Lebkowska-Wieruszewska B, Owen H, Yun HI, Kowalski CJ, Giorgi M. Pharmacokinetic profiles of the novel COX-2 selective inhibitor cimicoxib in dogs. *Vet J.* 2014 Apr;200(1):77-81.

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

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