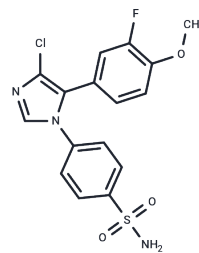


## Cimicoxib

## Chemical Properties

CAS No. :	265114-23-6
Formula:	C <sub>16</sub> H <sub>13</sub> ClFN <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	381.81
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	Cimicoxib (UR8880) is a potent and selective inhibitor of COX-2 with anti-inflammatory and analgesic activity.
Targets(IC50)	COX

## Solubility Information

Solubility	DMSO: 50 mg/mL (130.96 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	2.6191 mL	13.0955 mL	26.191 mL
5 mM	0.5238 mL	2.6191 mL	5.2382 mL
10 mM	0.2619 mL	1.3096 mL	2.6191 mL
50 mM	0.0524 mL	0.2619 mL	0.5238 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

- Kim TW, et al. Pharmacokinetic profiles of the novel COX-2 selective inhibitor cimicoxib in dogs. *Vet J.* 2014 Apr;200(1):77-81.
- Kropf J, et al. Efficacy and safety of cimicoxib in the control of perioperative pain in dogs: a critique. *J Small Anim Pract.* 2014 Dec;55(12):652-3.
- Kim TW, et al. Evaluation of pharmacokinetic and pharmacodynamic properties of cimicoxib in fasted and fed horses. *N Z Vet J.* 2015 Mar;63(2):92-7.
- Schneider M, et al. Disposition of cimicoxib in plasma and milk of whelping bitches and in their puppies. *BMC Vet Res.* 2015 Jul 31;11:178.

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