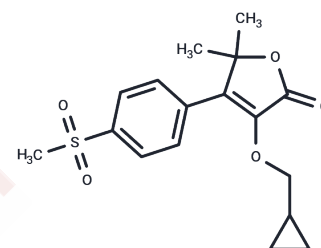


## Firocoxib

## Chemical Properties

CAS No. :	189954-96-9
Formula:	C <sub>17</sub> H <sub>20</sub> O <sub>5</sub> S
Molecular Weight:	336.4
Appearance:	Solid
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Firocoxib (ML 1785713) is a selective non-steroidal inhibitor of cyclooxygenase-2 (COX-2) with an IC <sub>50</sub> of 0.13 μM, used for its anti-inflammatory properties in dogs and horses.
Targets(IC <sub>50</sub> )	COX

## Solubility Information

Solubility	DMSO: 47 mg/mL (139.71 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	2.9727 mL	14.8633 mL	29.7265 mL
5 mM	0.5945 mL	2.9727 mL	5.9453 mL
10 mM	0.2973 mL	1.4863 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 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.

## Reference

- Stock ML, et al. Pharmacokinetics of firocoxib in preweaned calves after oral and intravenous administration. J Vet Pharmacol Ther. 2014 Oct;37(5):457-63.
- Albanese F, et al. Clinical outcome and cyclo-oxygenase-2 expression in five dogs with solar dermatitis/actinic keratosis treated with firocoxib. Vet Dermatol. 2013 Dec;24(6):606-12, e147.

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