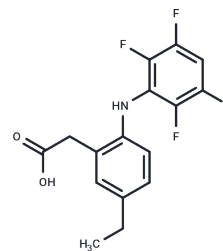


Robenacoxib

Chemical Properties

CAS No. :	220991-32-2
Formula:	C ₁₆ H ₁₃ F ₄ NO ₂
Molecular Weight:	327.27
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	Robenacoxib (Onsior) is a non-steroidal compound with strong selectivity for cyclooxygenase-2 and anti-inflammatory activity.
Targets(IC50)	COX
In vivo	Robenacoxib (2 mg/kg; oral; dogs) by oral (tablet) administration was effective and well tolerated in the control of peri-operative pain and inflammation associated with soft tissue surgery in dogs. Significantly (P = 0.019) more dogs administered Robenacoxib were considered treatment successes (89 of 116, 76.72%) compared to dogs given a placebo (74 of 115, 64.35%). The percentage of treatment failure was therefore 23.28% in the Robenacoxib and 35.65% in the placebo group. The least squares mean total pain scores were significantly different between groups and in favor of Robenacoxib at 3 and 5 hours (P < 0.05) and 8 hours post-extubation (P < 0.01). Pain at the surgery sites (response to touch) was also significantly improved at 3, 5, and 8 hours post-extubation in dogs receiving Robenacoxib versus placebo (P < 0.01). In addition, a significant overall improvement in posture/activity was revealed with Robenacoxib having lower scores versus placebo (P < 0.01). No significant differences between the Robenacoxib and placebo groups in the frequency of reported adverse events were observed.[2]

Solubility Information

Solubility	DMSO: 45 mg/mL (137.5 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	3.0556 mL	15.2779 mL	30.5558 mL
5 mM	0.6111 mL	3.0556 mL	6.1112 mL
10 mM	0.3056 mL	1.5278 mL	3.0556 mL
50 mM	0.0611 mL	0.3056 mL	0.6111 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

- Friton G, et al. Efficacy and Safety of Injectable Robenacoxib for the Treatment of Pain Associated With Soft Tissue Surgery in Dogs. *J Vet Intern Med.* 2017;31(3):832-841.
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- Edamura K, et al. Comparison of oral robenacoxib and carprofen for the treatment of osteoarthritis in dogs: a randomized clinical trial. *J Vet Med Sci.* 2012;74(9):1121-1131.
- Kongara K, et al. Robenacoxib in the treatment of pain in cats and dogs: safety, efficacy, and place in therapy. *Vet Med (Auckl).* 2018;9:53-61.
- Jung M, et al. Analytical determination and pharmacokinetics of robenacoxib in the dog. *J Vet Pharmacol Ther.* 2009;32(1):41-48.

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