

Product Name: Carprofen Revision Date: 01/10/2021

Product Data Sheet

Carprofen

Cat No :	P1600	
Cat. NO.:	B1690	CI
CAS No.:	53716-49-7	
Formula:	C15 H12CINO2	
M.Wt:	273.71	
Synonyms:		но
Target:		
Pathway:		
Storage:	Store at -20°C	
	<u>B10</u>	810
Solvent & Solubility		
	1.5	

	insoluble in H2O; \geq	insoluble in H2O; \geq 11.05 mg/mL in DMSO; \geq 19.17 mg/mL in EtOH			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	SICK Solutions	1 mM	3.6535 mL	18.2675 mL	36.5350 mL
	810	5 mM	0.7307 mL	3.6535 mL	7.3070 mL
	PENE	10 mM	0.3654 mL	1.8268 mL	3.6535 mL

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

Biological Activity

Shortsummary

COX inhibitor

IC₅₀ & Target

In Vitro

Cell	Via	bility	Assav

con trashity Accuy	
Cell Line:	gastric mucosa
Preparation method:	The solubility of this compound in DMSO is >11.1mg/mL. General tips for
	obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
	below -20°C for several months.
Reacting conditions:	40 or 400 μg/mL

1 | www.apexbt.com

	Applications:	In the gastric mucosa of dogs, carprofen increased in vitro conductance and		
		permeability to mannitol. Carprofen (400 µg/mL) caused sloughing of epithelial		
		cells. Carprofen appeared to compromise gastric mucosal integrity and barrier		
		function in dogs.		
	Animal experiment			
	Animal models:	Dogs with chronic unilateral osteoarthritis of the stifle joint		
	Dosage form:	10 days with a 30- to 60-day washout period		
	Applications:	Carprofen significantly suppressed PGE2 concentrations in blood at days 3		
		and 10. Carprofen significantly decreased gastric synthesis of PGE2 at day 3		
In Vivo		but not day 10 of each treatment period. Carprofen decreased synovial fluid		
		PGE2 concentrations in the affected and unaffected stifle joints at days 3 and		
		10.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
	BLO	system error and it is normal.		
	PE	PERMIT		
Droduct	Citationa	Part of the second s		

See more customer validations on www.apexbt.com.

References



APEBIC

[1] Hicks M A, Hosgood G L, Morgan T W, et al. In vitro effect of carprofen and meloxicam on the conductance and permeability to mannitol and the histologic appearance of the gastric mucosa of dogs[J]. American journal of veterinary research, 2011, 72(4): 570-577.

[2] Sessions J K, Reynolds L R, Budsberg S C. In vivo effects of carprofen, deracoxib, and etodolac on prostanoid production in blood, gastric mucosa, and synovial fluid in dogs with chronic osteoarthritis[J]. American journal of veterinary research, 2005, 66(5): 812-817.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

2 | www.apexbt.com















