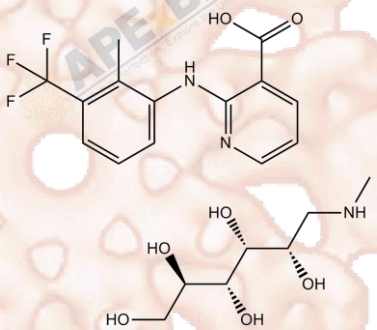
Product Data Sheet

Flunixin Meglumin



Cat. No.:	B1445
CAS No.:	42461-84-7
Formula:	C14H11F3N2O2·C7H17NO5
M.Wt:	491.46
Synonyms:	
Target:	Neuroscience
Pathway:	COX
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾24.55 mg/mL in DMSO; ⩾17.75 mg/mL in EtOH; ⩾23.2 mg/mL in H2O

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.0348 mL	10.1738 mL	20.3475 mL
5 mM	0.4070 mL	2.0348 mL	4.0695 mL
10 mM	0.2035 mL	1.0174 mL	2.0348 mL

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

Biological Activity

Shortsummary	potent cyclooxygenase inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Canine polymorphonuclear leucocyte
Preparation method:	The solubility of this compound in DMSO is >24.6mg/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:	10-4 M, pre-incubated for 15 min at 37°C

	Applications:	Flunixin Meglumin is a potent inhibitor on leukotriene-B4-directed migration of canine polymorphonuclear leucocyte. Part of the anti-inflammatory action of Flunixin Meglumin in dogs may be attributed to inhibition of polymorphonuclear leucocyte recruitment.
In Vivo	**Animal experiment**	
	Animal models:	Beagle dogs
	Dosage form:	1 mg/kg, i.v.
	Applications:	Flunixin Meglumin almost completely abolished the LTB4 response at 1 h, and still possessed significant inhibitory activity 24 h in dog. Part of the anti-inflammatory action of Flunixin Meglumin in dogs may be attributed to inhibition of polymorphonuclear leucocyte recruitment.
	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 system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Strm H, Thomsen MK. Effects of non-steroidal anti-inflammatory drugs on canine neutrophil chemotaxis. J Vet Pharmacol Ther. 1990 Jun;13(2):186-91.

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.

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