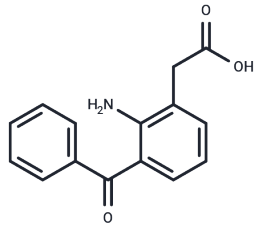
Data Sheet (Cat.No.T20197)

TargetMol

Amfenac sodium

Chemical Properties



CAS No. :	61941-56-8
Formula:	C15H12NNaO3
Molecular Weight:	277.26
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	Amfenac is a nonsteroidal anti-inflammatory drug. Amfenac also has acetic acid moiety.
Targets(IC50)	Others,COX

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6067 mL	18.0336 mL	36.0672 mL
5 mM	0.7213 mL	3.6067 mL	7.2134 mL
10 mM	0.3607 mL	1.8034 mL	3.6067 mL
50 mM	0.0721 mL	0.3607 mL	0.7213 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

Sheppard JD, Cockrum PC, Justice A, Jasek MC. In Vivo Pharmacokinetics of Bromfenac Ophthalmic Solution 0.075%, Bromfenac Ophthalmic Solution 0.07%, and Nepafenac/Amfenac Ophthalmic Suspension 0.3% in Rabbits. Ophthalmol Ther. 2018 May 14. doi: 10.1007/s40123-018-0130-1. [Epub ahead of print] PubMed PMID: 29761367.
Acar U, Acar DE, Tanriverdi C, Acar M, Ozdemir O, Erikci A, Ornek F. Prostaglandin E(2) Levels of Aqueous and Vitreous Humor in Ketorolac 0.4% and Nepafenac 0.1% Administered Healthy Rabbits. Ocul Immunol Inflamm. 2017 Jun;25(3):323-327. doi: 10.3109/09273948.2015.1116587. Epub 2016 Jan 14. PubMed PMID: 26765265.
Chastain JE, Sanders ME, Curtis MA, Chemuturi NV, Gadd ME, Kapin MA, Markwardt KL, Dahlin DC. Distribution of topical ocular nepafenac and its active metabolite amfenac to the posterior segment of the eye. Exp Eye Res. 2016 Apr;145:58-67. doi: 10.1016/j.exer.2015.10.009. Epub 2015 Oct 22. PubMed PMID: 26474497.
Kida T, Kozai S, Takahashi H, Isaka M, Tokushige H, Sakamoto T. Pharmacokinetics and efficacy of topically applied nonsteroidal anti-inflammatory drugs in retinochoroidal tissues in rabbits. PLoS One. 2014 May 5;9(5):e96481. doi: 10.1371/journal.pone.0096481. eCollection 2014. PubMed PMID: 24796327; PubMed Central PMCID: PMC4010472.

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