Data Sheet (Cat.No.T2403)

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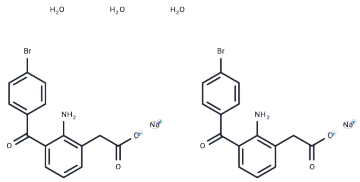
Bromfenac sodium hydrate

Chemical Properties



CAS No. : 120638-55-3

Formula: C15H12BrNO3·3/2H2O·Na

Molecular Weight: 383.17

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Bromfenac sodium hydrate (Bromfenac monosodium salt sesquihydrate) is the sodium salt form of bromfenac, a nonsteroidal anti-inflammatory drug (NSAID) with analgesic and anti-inflammatory activities. Upon ophthalmic administration, bromfenac binds to and inhibits the activity of cyclooxygenase II (COX II), an enzyme which converts arachidonic acid to cyclic endoperoxides, precursors of prostaglandins (PG). By inhibiting PG formation, bromfenac is able to inhibit PG-induced inflammation, thereby preventing vasodilation, leukocytosis, disruption of the blood-aqueous humor barrier, an increase in vascular permeability and an increase in intraocular pressure (IOP).
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 12.5 mg/mL (32.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6098 mL	13.049 mL	26.0981 mL
5 mM	0.522 mL	2.6098 mL	5.2196 mL
10 mM	0.261 mL	1.3049 mL	2.6098 mL
50 mM	0.0522 mL	0.261 mL	0.522 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

Shimura M, Yasuda K. Br J Ophthalmol. 2015 Feb;99(2):215-9.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481