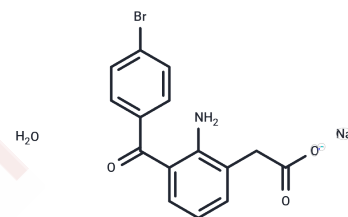


Bromfenac sodium hydrate

Chemical Properties

CAS No. :	120638-55-3
Formula:	C ₁₅ H ₁₂ BrNO ₃ ·3/2H ₂ O·Na
Molecular Weight:	383.17
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	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 properties. Upon ophthalmic administration, bromfenac binds to and inhibits cyclooxygenase II (COX II), an enzyme that converts arachidonic acid to cyclic endoperoxides, which are prostaglandin (PG) precursors. By inhibiting PG formation, bromfenac prevents PG-induced inflammation, vasodilation, leukocytosis, disruption of the blood-aqueous humor barrier, increased vascular permeability, and elevated 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.22 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

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

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