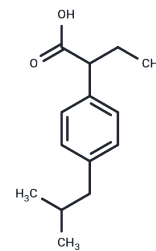


Butibufen

Chemical Properties

CAS No. :	55837-18-8
Formula:	C ₁₄ H ₂₀ O ₂
Molecular Weight:	220.31
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Butibufen (FF-106) is an orally active non-steroidal anti-inflammatory compound, a potential cyclooxygenase inhibitor with analgesic and antipyretic activity, and inhibits urea synthesis. Butibufen has been used in the study of rheumatic diseases.
Targets(IC50)	Others, Lipoxygenase, Urea Transporter
In vitro	In hepatocytes from Sprague-Dawley male rats, Butibufen (0.1 μM-0.1 M; 60 min) exhibited no cell viability effects at a dose of 200 μM, but dose- and time-dependently affected cell viability at higher concentrations[2].
In vivo	In Sprague-Dawley rats, Butibufen (50 and 250 mg/kg; oral gavage) reduces acid phosphatase activity but does not affect the stability of lysosomal membranes[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5391 mL	22.6953 mL	45.3906 mL
5 mM	0.9078 mL	4.5391 mL	9.0781 mL
10 mM	0.4539 mL	2.2695 mL	4.5391 mL
50 mM	0.0908 mL	0.4539 mL	0.9078 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

Aparicio L. Some aspects of the pharmacology of butibufen, a non-steroidal anti-inflammatory agent. Arch Int Pharmacodyn Ther. 1977 May;227(1):130-41.

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Alamo C, et al. Influence of butibufen on enzyme activity and lysosomal stabilization ex vivo: a comparative study with hydrocortisone and acetylsalicylic acid. Methods Find Exp Clin Pharmacol.

Hoult JR, et al. Chromatographic resolution, chiroptical characterization and preliminary pharmacological evaluation of the enantiomers of butibufen: a comparison with ibuprofen. J Pharm Pharmacol. 1999 Oct;51(10):1201-5.

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