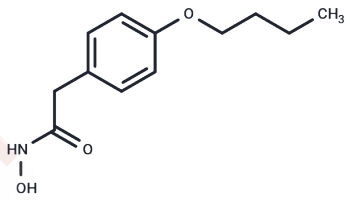
Data Sheet (Cat.No.T0867)

TargetMol

Bufexamac

Chemical Properties



CAS No. : 2438-72-4

Formula: C12H17NO3

Molecular Weight: 223.27

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	Bufexamac (Bufexamic acid) is a COX inhibitor for IFN-α release with anti-inflammatory, analgesic, and antipyretic action.
Targets(IC50)	Aminopeptidase,HDAC,COX
In vitro	Bufexamac is a specific inhibitor of class IIB histone deacetylases (HDAC6 and HDAC10). Treatment of peripheral blood mononuclear cells with bufexamac inhibits the secretion of IFN-α. [1] Bufexamac is a frequent and relevant contact sensitizer. Bufexamac is a non-steroidal anti-inflammatory drug. [2]

Solubility Information

Solubility	Ethanol: 3 mg/mL (13.44 mM),Sonication is recommended. DMSO: 70 mg/mL (313.52 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4789 mL	22.3944 mL	44.7888 mL
5 mM	0.8958 mL	4.4789 mL	8.9578 mL
10 mM	0.4479 mL	2.2394 mL	4.4789 mL
50 mM	0.0896 mL	0.4479 mL	0.8958 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

Bantscheff M, et al. Nat Biotechnol. 2011, 29(3), 255-265.
Kränke B, et al. Contact Dermatitis. 1997, 36(4), 212-215.

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