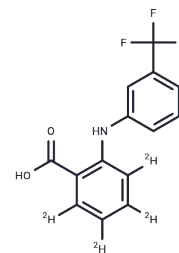


Flufenamic Acid-D4

Chemical Properties

CAS No. :	1185071-99-1
Formula:	C ₁₄ H ₆ D ₄ F ₃ NO ₂
Molecular Weight:	285.26
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	Flufenamic Acid-D4 is intended for use as an internal standard for the quantification of flufenamic acid by GC- or LC-MS. Flufenamic acid is a non-steroidal anti-inflammatory drug (NSAID) and COX inhibitor (IC ₅₀ s = 3 and 9.3 μM for human COX-1 and COX-2, respectively). Flufenamic acid inhibits TNF-α-induced increases in COX-2 levels and NF-κB activation in HT-29 colon cancer cells in a concentration-dependent manner. It inhibits calcium influx induced by fMLP or A23187 in human polymorphonuclear leukocytes (PMN) with IC ₅₀ values of 29 and 14 μM, respectively. Flufenamic acid also activates various ion channels, including transient receptor potential canonical 6 (TRPC6) and the large-conductance calcium-activated potassium channel (KCa1.1). It also inhibits various ion channels, including TRPC3 and the cystic fibrosis transmembrane conductance regulator (CFTR). Flufenamic acid (20 mg/kg) reduces increases in intestinal fluid secretion and intestinal barrier disruption in mice
Targets(IC ₅₀)	Calcium Channel,AMPK,Parasite,Chloride channel,COX,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5056 mL	17.5279 mL	35.0557 mL
5 mM	0.7011 mL	3.5056 mL	7.0111 mL
10 mM	0.3506 mL	1.7528 mL	3.5056 mL
50 mM	0.0701 mL	0.3506 mL	0.7011 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481