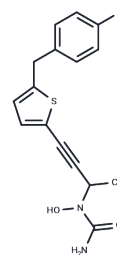


COX/5-LO-IN-1

Chemical Properties

CAS No. :	154355-75-6
Formula:	C ₁₆ H ₁₅ FN ₂ O ₂ S
Molecular Weight:	318.37
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	COX/5-LO-IN-1 is a cyclooxygenase and 5-lipoxygenase (5-LO) inhibitor, and used for inflammatory and allergic disease states.
Targets(IC50)	COX,Lipoxygenase
In vitro	COX / 5-LO-IN-1 reduces the biosynthesis of leukotrienes B ₄ , C ₄ , D ₄ and E ₄ and cyclooxygenase products (such as prostaglandins and thromboxanes) and can be used to treat inflammation and allergic diseases[1]. COX/5-LO-IN-1 shows inhibitory activities against 5-lipoxygenase(IC ₅₀ of 0.2 μM in human whole blood)[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.141 mL	15.705 mL	31.410 mL
5 mM	0.6282 mL	3.141 mL	6.282 mL
10 mM	0.3141 mL	1.5705 mL	3.141 mL
50 mM	0.0628 mL	0.3141 mL	0.6282 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

Lipoxygenase and cyclooxygenase inhibiting compounds. US 5516789 A
Brooks CD, et al. (R)-(+)-N-[3-[5-[(4-fluorophenyl)methyl]-2-thienyl]-1-methyl-2-propynyl]-N-hydroxyurea (ABT-761), a second-generation 5-lipoxygenase inhibitor. J Med Chem. 1995 Nov 24;38(24):4768-75.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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