

COX-2-IN-51

Chemical Properties

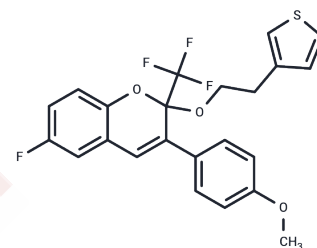
CAS No. : 3064260-49-4

Formula: C₂₃H₁₈F₄O₃S

Molecular Weight: 450.446

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-2-IN-51 (E25) is a potent COX-2 inhibitor with an IC ₅₀ of 70.7 nM. It significantly suppresses LPS-induced release of NO and PGE ₂ , the expression of COX-2 and iNOS, and the activation of the NF-κB pathway. Displaying anti-inflammatory and analgesic effects in various mouse models through NF-κB pathway inhibition, COX-2-IN-51 has lower gastrointestinal side effects compared to Indomethacin.
Targets(IC ₅₀)	NF-κB, COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.220 mL	11.100 mL	22.200 mL
5 mM	0.444 mL	2.220 mL	4.440 mL
10 mM	0.222 mL	1.110 mL	2.220 mL
50 mM	0.0444 mL	0.222 mL	0.444 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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