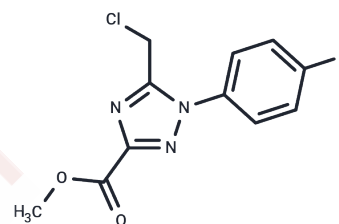


COX-2-IN-20

Chemical Properties

CAS No. :	2529451-43-0
Formula:	C ₁₁ H ₉ ClFN ₃ O ₂
Molecular Weight:	269.66
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-20 (Compound 5d) is a selective and orally active COX-2 inhibitor (IC ₅₀ = 17.9 nM) with anti-inflammatory activity [1].
Targets(IC ₅₀)	Others,COX
In vitro	COX-2-IN-20 (Compound 5d) exhibits potential anti-inflammatory activity, inhibiting NO production in LPS-induced RAW 264.7 cells with an IC ₅₀ of 2.87 μM [1].
In vivo	COX-2-IN-20 (Compound 5d) (5 mg/kg) demonstrates superior anti-inflammatory and gastric protective effects in vivo compared to 10 mg/kg indomethacin [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7084 mL	18.5419 mL	37.0837 mL
5 mM	0.7417 mL	3.7084 mL	7.4167 mL
10 mM	0.3708 mL	1.8542 mL	3.7084 mL
50 mM	0.0742 mL	0.3708 mL	0.7417 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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