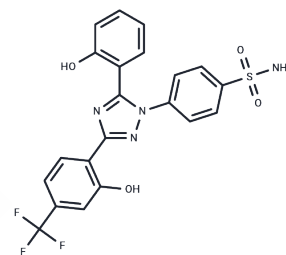


Anti-inflammatory agent 56

Chemical Properties

CAS No. :	2413127-32-7
Formula:	C ₂₁ H ₁₅ F ₃ N ₄ O ₄ S
Molecular Weight:	476.43
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	Anti-inflammatory agent 56 (Compound 9), a selective COX-2 inhibitor with an IC ₅₀ of 0.54 μM, exhibits antioxidant and anti-inflammatory properties by inhibiting oxidative stress-induced cell death and neuroinflammation through the suppression of Keap1, COX-2, and iNOS. It demonstrates low acute toxicity in mice with an LD ₅₀ of 1000 mg/kg [1].
Targets(IC ₅₀)	COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0989 mL	10.4947 mL	20.9894 mL
5 mM	0.4198 mL	2.0989 mL	4.1979 mL
10 mM	0.2099 mL	1.0495 mL	2.0989 mL
50 mM	0.042 mL	0.2099 mL	0.4198 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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