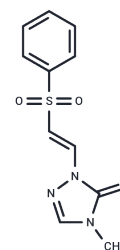


R079

Chemical Properties

CAS No. : 2115659-62-4
 Formula: C₁₁H₁₁N₃O₃S
 Molecular Weight: 265.29
 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	R079 (compound 17), a selective and orally active Nrf2 activator, enhances Nrf2 translocation activity (EC 50 = 32.41 μM) and can neutralize excess levels of reactive oxygen species by activating Nrf2. Additionally, R079 possesses anti-inflammatory properties and has applications in multiple sclerosis research [1].
Targets(IC50)	Nrf2
In vivo	Administered orally twice daily at doses of 30, 60, and 90 mg/kg for 28 days, the chemical compound R079 significantly reduced the severity of disease in a mouse model of experimental autoimmune encephalomyelitis (EAE), demonstrating a dose-dependent effect with an 89% reduction at the 60 mg/kg dosage [1]. Additionally, at doses of 60 and 90 mg/kg, R079 increased Nrf2 levels in the mouse thymus for up to 8 hours. Pharmacokinetic studies revealed that in Balb/c mice, R079 has a clearance rate of 2.01 mL/min/kg, a half-life of 1.0 hour, a steady-state volume of distribution of 0.14 L/kg, an oral AUC of 22900 ng·h/mL, an oral C max of 19600 ng/mL (73.96 μM), and a bioavailability of 56% [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7695 mL	18.8473 mL	37.6946 mL
5 mM	0.7539 mL	3.7695 mL	7.5389 mL
10 mM	0.3769 mL	1.8847 mL	3.7695 mL
50 mM	0.0754 mL	0.3769 mL	0.7539 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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