

BRD4 Inhibitor-38

Chemical Properties

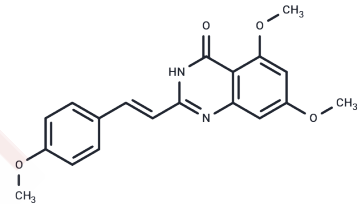
CAS No. :

Formula: C₁₉H₁₈N₂O₄

Molecular Weight: 338.357

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	BRD4 Inhibitor-38 (Compound 25) is an orally active BRD4 inhibitor, exhibiting IC ₅₀ values of 3.64 μM for BRD4 BD1 and 0.12 μM for BRD4 BD2. It also demonstrates anti-inflammatory properties, with an IC ₅₀ value of 1.98 μM for nitric oxide (NO) production.
Targets(IC ₅₀)	Epigenetic Reader Domain, Interleukin, TNF
In vitro	BRD4 Inhibitor-38 (Compound 25) exhibits anti-inflammatory activity in Raw 264.7 and THP-1 cells when used at concentrations ranging from 2.5 to 20 μM over a 2-hour period [1].
In vivo	BRD4 Inhibitor-38 (Compound 25) demonstrates anti-inflammatory activity in a mouse model of acute inflammation induced by LPS (10 mg/kg; single dose) when administered orally in doses ranging from 25 to 100 mg/kg [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9554 mL	14.7772 mL	29.5543 mL
5 mM	0.5911 mL	2.9554 mL	5.9109 mL
10 mM	0.2955 mL	1.4777 mL	2.9554 mL
50 mM	0.0591 mL	0.2955 mL	0.5911 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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