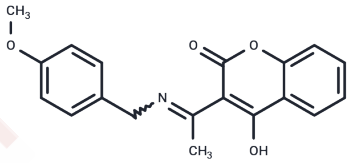
Data Sheet (Cat.No.T67952)

TargetMol

JB062

Chemical Properties



CAS No. : 2417988-00-0

Formula: C19H17NO4

Molecular Weight: 323.34

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	JB062 is a chemical compound acting as a nonmuscle myosin inhibitor, exhibiting IC50 values of 1.6, 5.4, and >100 μM against skeletal muscle myosin, cardiac muscle myosin, and smooth muscle myosin II, respectively. It selectively exhibits cytotoxicity towards human cancer cells without affecting normal cells. The compound is applicable in research fields concerning muscle spasticity, chronic musculoskeletal pain, and hypertrophic cardiomyopathy.
Targets(IC50)	Myosin
In vitro	JB062 (40 μM ; 24 h) inhibited cytoplasmic division in COS-7 cells.[1] JB062 (COS-7 cells) exhibited cytotoxicity against human cancer cells but showed no cytotoxicity towards normal cells, with an IC50 value of 36 μM.[1]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (69.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0927 mL	15.4636 mL	30.9272 mL
5 mM	0.6185 mL	3.0927 mL	6.1854 mL
10 mM	0.3093 mL	1.5464 mL	3.0927 mL
50 mM	0.0619 mL	0.3093 mL	0.6185 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.

Reference

Smith JD, et al. Isoform selectivities of novel 4-hydroxycoumarin imines as inhibitors of myosin II. Eur J Med Chem. 2023;247:115008.

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