

JB061

## Chemical Properties

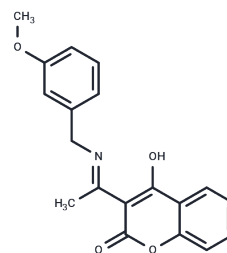
CAS No. :

Formula: C<sub>19</sub>H<sub>17</sub>N<sub>1</sub>O<sub>4</sub>

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	JB061 is a nonmuscle myosin inhibitor, demonstrating selective inhibitory activity with IC <sub>50</sub> values of 4.4 μM (Cardiac muscle myosin), 9.1 μM (Skeletal muscle myosin), and >100 μM (Smooth muscle myosin II). It exhibits limited efficacy in reducing ATPase activity, with an IC <sub>50</sub> exceeding 200 μM. Furthermore, JB061 displays cytotoxic effects on COS-7 cells, evidenced by an IC <sub>50</sub> value of 39 μM.
Targets(IC <sub>50</sub> )	Myosin
In vitro	N-acetyl-D-Lactosamine (10 microg/ml) was a potent mitogen towards human peripheral blood mononuclear cells.[3] N-acetyl-D-Lactosamine (100 microg/ml) has 50% growth inhibitory potential towards SiHa (human cervix ) cancer cell line.[3]

## Solubility Information

Solubility	DMSO: 4 mg/mL (12.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481