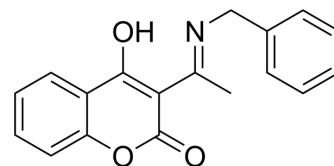


## JB002

Cat. No.:	HY-152190
CAS No.:	30408-07-2
Molecular Formula:	C <sub>18</sub> H <sub>15</sub> NO <sub>3</sub>
Molecular Weight:	293.32
Target:	Myosin
Pathway:	Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 31.25 mg/mL (106.54 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.4092 mL	17.0462 mL	34.0925 mL
		5 mM	0.6818 mL	3.4092 mL	6.8185 mL
	10 mM	0.3409 mL	1.7046 mL	3.4092 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.09 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	JB002 is a myosin II inhibitor, with an IC <sub>50</sub> of ≤10 μM. JB002 can be used for the research of muscle spasticity, chronic musculoskeletal pain, and hypertrophic cardiomyopathy <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: ≤10 μM (myosin II) <sup>[1]</sup>
In Vitro	JB002 show promising selectivity between cardiac and skeletal myosin but have no detectible activity toward nonmuscle IIB <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Smith JD, et, al. Isoform selectivities of novel 4-hydroxycoumarin imines as inhibitors of myosin II. Eur J Med Chem. 2022 Dec 12;247:115008.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA