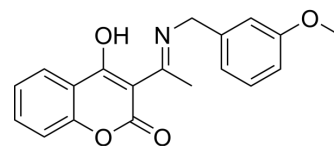


JB061

Cat. No.:	HY-152205		
Molecular Formula:	C ₁₉ H ₁₇ NO ₄		
Molecular Weight:	323.34		
Target:	Myosin		
Pathway:	Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (77.32 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		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		
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 (6.43 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	JB061 is a nonmuscle myosin inhibitor with IC ₅₀ s of 4.4 μM (Cardiac muscle myosin), 9.1 μM (Skeletal muscle myosin), and >100 μM (Smooth muscle myosin II), respectively. JB061 poorly decreases ATPase activity (IC ₅₀ >200 μM). JB061 shows cytotoxicity against COS-7 cells with an IC ₅₀ value of 39 μM ^[1] .		
IC₅₀ & Target	Cardiac muscle myosin 4.4 μM (IC ₅₀)	Skeletal muscle myosin 9.1 μM (IC ₅₀)	Smooth muscle myosin II >100 μM (IC ₅₀)
In Vitro	JB061 (compound 6a) (40 μM; 24 h) inhibits cytokinesis in Cos-7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

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

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