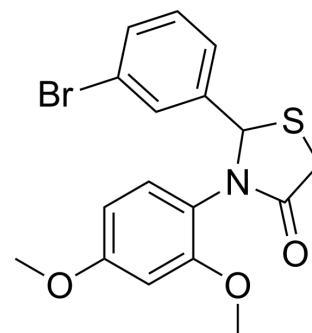


CK-869

Cat. No.:	HY-16927		
CAS No.:	388592-44-7		
Molecular Formula:	C ₁₇ H ₁₆ BrNO ₃ S		
Molecular Weight:	394.28		
Target:	Arp2/3 Complex		
Pathway:	Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (63.41 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5363 mL	12.6813 mL	25.3627 mL
		5 mM	0.5073 mL	2.5363 mL	5.0725 mL
10 mM		0.2536 mL	1.2681 mL	2.5363 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.34 mM); Suspended solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	CK-869 is an Actin-Related Protein 2/3 (ARP2/3) complex inhibitor, with an IC ₅₀ of 7 μM.
IC₅₀ & Target	IC ₅₀ : 7 μM (ARP2/3) ^[1] .
In Vitro	CK-869 is an Actin-Related Protein 2/3 (ARP2/3) complex inhibitor, with an IC ₅₀ of 7 μM ^[1] . CK-869 significantly inhibits MT polymerization even at a concentration of 25 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Rep. 2021 Jul 6;36(1):109318.

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REFERENCES

- [1]. Hetrick B, et al. Small molecules CK-666 and CK-869 inhibit actin-related protein 2/3 complex by blocking an activating conformational change. Chem Biol. 2013 May 23;20(5):701-12.
- [2]. Yamagishi Y, et al. Use of CK-548 and CK-869 as Arp2/3 complex inhibitors directly suppresses microtubule assembly both in vitro and in vivo. Biochem Biophys Res Commun. 2018 Feb 12;496(3):834-839.
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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