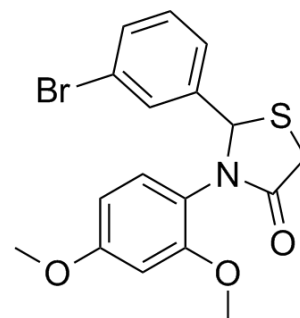


## CK-869

Cat. No.:	HY-16927		
CAS No.:	388592-44-7		
Molecular Formula:	C <sub>17</sub> H <sub>16</sub> BrNO <sub>3</sub> 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	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMS : 75 mg/mL (190.22 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- 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<sub>50</sub> of 7 μM.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 7 μM (ARP2/3)<sup>[1]</sup>.

#### In Vitro

CK-869 is an Actin-Related Protein 2/3 (ARP2/3) complex inhibitor, with an IC<sub>50</sub> of 7 μM<sup>[1]</sup>. CK-869 significantly

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inhibits MT polymerization even at a concentration of 25  $\mu\text{M}$ <sup>[2]</sup>.

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## REFERENCES

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[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.**

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