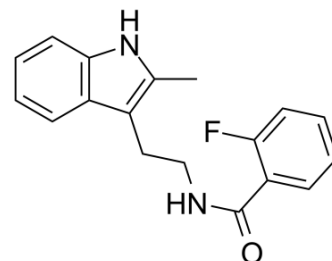


## CK-666

Cat. No.:	HY-16926		
CAS No.:	442633-00-3		
Molecular Formula:	C <sub>18</sub> H <sub>17</sub> FN <sub>2</sub> O		
Molecular Weight:	296.34		
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

DMSO : 125 mg/mL (421.81 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass	1 mg	5 mg	10 mg
	Concentration			
	1 mM	3.3745 mL	16.8725 mL	33.7450 mL
	5 mM	0.6749 mL	3.3745 mL	6.7490 mL
	10 mM	0.3375 mL	1.6873 mL	3.3745 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: ≥ 12.5 mg/mL (42.18 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 12.5 mg/mL (42.18 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 12.5 mg/mL (42.18 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

CK-666 is a cell-permeable inhibitor of actin-related protein **Arp2/3 complex**, and binds to Arp2/3 complex, stabilizes the inactive state of the complex, blocking movement of the Arp2 and Arp3 subunits into the activated filament-like (short pitch) conformation<sup>[1]</sup>.

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

Arp2/3 complex<sup>[1]</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.

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

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