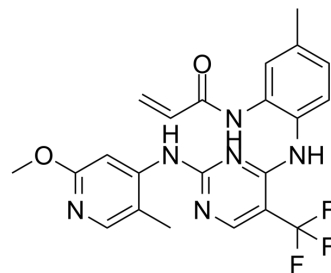


## CC-90003

<b>Cat. No.:</b>	HY-112570		
<b>CAS No.:</b>	1621999-82-3		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>21</sub> F <sub>3</sub> N <sub>6</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	458.44		
<b>Target:</b>	ERK		
<b>Pathway:</b>	MAPK/ERK Pathway; Stem Cell/Wnt		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 125 mg/mL (272.66 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1813 mL	10.9066 mL	21.8131 mL
	5 mM	0.4363 mL	2.1813 mL	4.3626 mL
	10 mM	0.2181 mL	1.0907 mL	2.1813 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 (5.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

CC-90003 is an irreversible and selective inhibitor of ERK 1/2 with antitumor activity.

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

ERK1                      ERK2

#### In Vitro

CC-90003 is an irreversible and selective inhibitor of ERK 1/2 with antitumor activity<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Mol Med Rep. 2021 Nov;24(5):773.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Monica M. Mita, et al. A phase Ia study of CC-90003, a selective extracellular signal-regulated kinase (ERK) inhibitor, in patients with relapsed or refractory BRAF or RAS-mutant tumors. Journal of Clinical Oncology 35, no. 15\_suppl (May 20 2017) 2577-257

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

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