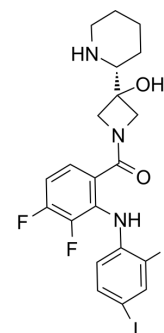


## Cobimetinib (R-enantiomer)

<b>Cat. No.:</b>	HY-13079		
<b>CAS No.:</b>	934660-94-3		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>21</sub> F <sub>3</sub> IN <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	531.31		
<b>Target:</b>	MEK		
<b>Pathway:</b>	MAPK/ERK Pathway		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (188.21 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8821 mL	9.4107 mL	18.8214 mL
	5 mM	0.3764 mL	1.8821 mL	3.7643 mL
	10 mM	0.1882 mL	0.9411 mL	1.8821 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: ≥ 2.75 mg/mL (5.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.75 mg/mL (5.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.75 mg/mL (5.18 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cobimetinib R-enantiomer is the less active R-enantiomer of Cobimetinib. Cobimetinib is a potent and selective MEK inhibitor.

### REFERENCES

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[1]. Hoeflich KP, et al. Intermittent administration of MEK inhibitor GDC-0973 plus PI3K inhibitor GDC-0941 triggers robust apoptosis and tumor growth inhibition. Cancer Res. 2012 Jan 1;72(1):210-9.

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

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