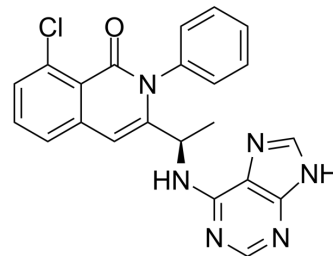


## Duvelisib (R enantiomer)

<b>Cat. No.:</b>	HY-17044A		
<b>CAS No.:</b>	1261590-48-0		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>17</sub> ClN <sub>6</sub> O		
<b>Molecular Weight:</b>	416.86		
<b>Target:</b>	PI3K		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<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 : 100 mg/mL (239.89 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3989 mL	11.9944 mL	23.9889 mL
	5 mM	0.4798 mL	2.3989 mL	4.7978 mL
	10 mM	0.2399 mL	1.1994 mL	2.3989 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.38 mg/mL (5.71 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Duvelisib R enantiomer is a PI3K inhibitor, which is the less active enantiomer of Duvelisib.

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

PI3K

### REFERENCES

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

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