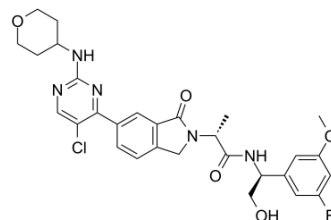


## ERK1/2 inhibitor 2

<b>Cat. No.:</b>	HY-126288		
<b>CAS No.:</b>	2095719-92-7		
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>31</sub> ClFN <sub>5</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	584.04		
<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	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (428.05 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.7122 mL	8.5611 mL	17.1221 mL
		5 mM	0.3424 mL	1.7122 mL	3.4244 mL
10 mM		0.1712 mL	0.8561 mL	1.7122 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (3.56 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.56 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (3.56 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	ERK1/2 inhibitor 2 (Example 1) is a potent dual ERK1/2 inhibitor. ERK1/2 inhibitor 2 has anti-cancer activity <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	ERK1	ERK2

### REFERENCES

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

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