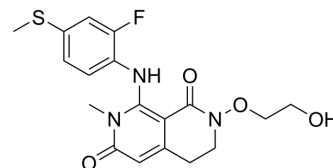


## MEK-IN-6

Cat. No.:	HY-153445		
CAS No.:	2845151-86-0		
Molecular Formula:	C <sub>18</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>4</sub> S		
Molecular Weight:	393.43		
Target:	MEK; ERK		
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (254.17 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.5417 mL	12.7087 mL	25.4175 mL
			5 mM	0.5083 mL	2.5417 mL	5.0835 mL
			10 mM	0.2542 mL	1.2709 mL	2.5417 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	MEK-IN-6 (Example 69) is a MEK inhibitor. MEK-IN-6 inhibits ERK1/2 (Thr202/Tyr204) phosphorylation in A375 cells (IC <sub>50</sub> : 2 nM). MEK-IN-6 can be used for research of cancer <sup>[1]</sup> .
IC <sub>50</sub> & Target	MEK

### REFERENCES

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

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