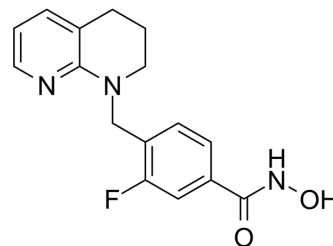


## PB131

Cat. No.:	HY-149966		
CAS No.:	2924425-63-6		
Molecular Formula:	C <sub>16</sub> H <sub>16</sub> FN <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	301.32		
Target:	HDAC		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	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 (331.87 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		3.3187 mL	16.5937 mL	33.1873 mL
		5 mM		0.6637 mL	3.3187 mL	6.6375 mL
10 mM			0.3319 mL	1.6594 mL	3.3187 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 (8.30 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.30 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (8.30 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	PB131 is a selective and brain-permeable HDAC6 inhibitor with high binding affinity (IC <sub>50</sub> : 1.8 nM). PB131 has potent anti-inflammatory activity. PB131 can be used for research of inflammation, especially neuroinflammation <sup>[1]</sup> .
IC <sub>50</sub> & Target	HDAC6 <sup>[1]</sup>

### REFERENCES

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

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