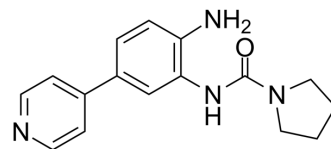


## BRD6688

Cat. No.:	HY-117709		
CAS No.:	1404562-17-9		
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> N <sub>4</sub> O		
Molecular Weight:	282.34		
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 (354.18 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5418 mL	17.7091 mL	35.4183 mL
		5 mM	0.7084 mL	3.5418 mL	7.0837 mL
10 mM		0.3542 mL	1.7709 mL	3.5418 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 (8.85 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 (8.85 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	BRD6688 is a selective HDAC2 inhibitor. BRD6688 increases H4K12 and H3K9 histone acetylation in primary mouse neuronal cells. BRD6688 crosses the blood brain barrier and rescues the memory defects associated with p25 induced neurodegeneration in contextual fear conditioning in a CK-p25 mouse model <sup>[1]</sup> .
IC <sub>50</sub> & Target	HDAC2

### REFERENCES

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

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