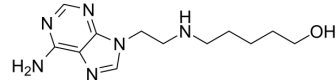


## NB001

Cat. No.:	HY-14425		
CAS No.:	686301-48-4		
Molecular Formula:	C <sub>12</sub> H <sub>20</sub> N <sub>6</sub> O		
Molecular Weight:	264		
Target:	Adenylate Cyclase		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (189.39 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.7879 mL	18.9394 mL	37.8788 mL
			5 mM	0.7576 mL	3.7879 mL	7.5758 mL
			10 mM	0.3788 mL	1.8939 mL	3.7879 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: ≥ 1.25 mg/mL (4.73 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (4.73 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (4.73 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	NB001 (HTS 09836) is an adenylylase 1 (AC1) inhibitor which has effect on neural and non-neural pain by modulating AC1 activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	AC1 <sup>[1]</sup>

### REFERENCES

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

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