## NAT

Cat. No.:	HY-144776				
CAS No.:	831243-31-3				
Molecular Formula:	C <sub>18</sub> H <sub>21</sub> NO <sub>3</sub>				
Molecular Weight:	299.36				
Target:	NAMPT				
Pathway:	Metabolic Enzyme/Protease				
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 (334.05 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.3405 mL	16.7023 mL	33.4046 mL	
		5 mM	0.6681 mL	3.3405 mL	6.6809 mL	
		10 mM	0.3340 mL	1.6702 mL	3.3405 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 (8.35 mM); Clear solution					
	2. Add each solvent of Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% (20 g/mL (8.35 mM); Clear solution	% SBE-β-CD in saline)			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.35 mM); Clear solution					

<b>BIOLOGICAL ACTIV</b>	ТТ
Description	NAT is an initial hit of NAMPT activator. NAMPT is the rate-limiting enzyme in the NAD salvage pathway, which makes it attractive target for the research of many diseases associated with NAD exhaustion such as neurodegenerative diseases

#### REFERENCES

# Product Data Sheet





[1]. Wang L, et al. Optimization of NAMPT activators to achieve in vivo neuroprotective efficacy [published online ahead of print, 2022 Mar 16]. Eur J Med Chem. 2022;236:114260.

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

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