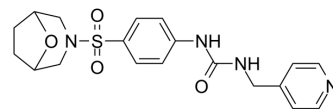


SBI-797812

Cat. No.:	HY-126255		
CAS No.:	2237268-08-3		
Molecular Formula:	C ₁₉ H ₂₂ N ₄ O ₄ S		
Molecular Weight:	402.47		
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 : 250 mg/mL (621.16 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.4847 mL	12.4233 mL
		5 mM	2.4847 mL	4.9693 mL
		10 mM	0.2485 mL	1.2423 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: 2.08 mg/mL (5.17 mM); Clear solution; Need ultrasonic			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.17 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.17 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	SBI-797812 is a potent nicotinamide phosphoribosyltransferase (NAMPT) activator. SBI-797812 shifts the NAMPT reaction equilibrium towards NMN formation, increases NAMPT affinity for ATP, stabilizes phosphorylated NAMPT at His247, promotes consumption of the pyrophosphate by-product, and blunts feedback inhibition by NAD ⁺ . SBI-797812 increases intracellular NMN and NAD ⁺ in cells, and elevates liver NAD ⁺ in mice ^[1] .
IC ₅₀ & Target	NAMPT ^[1]

In Vitro

SBI-797812 is structurally similar to active-site directed NAMPT inhibitors and blocks binding of these inhibitors to NAMPT with EC₅₀ of 0.37 μM^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gardell SJ , et al. Boosting NAD⁺ with a small molecule that activates NAMPT. Nat Commun. 2019 Jul 19;10(1):3241.

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

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