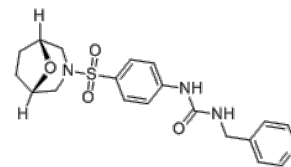


Product Name : SBI-797812
Cat. No. : PC-73039
CAS No. : 2237268-08-3
Molecular Formula : C₁₉H₂₂N₄O₄S
Molecular Weight : 402.469
Target : NAMPT
Solubility : 10 mM in DMSO



Biological Activity

SBI-797812 (SBI 797812) is a specific small molecule **NAMPT activator** with EC₅₀ of 0.37 uM, increases NAMPT-catalyzed NMN synthesis by 2.1-fold (E_{max}).

SBI-797812 caused concentration-dependent activation of human NAMPT-mediated NMN production in the presence of NAM, PRPP and ATP, activating NAMPT via SBI-797812 was abolished by NAMPT inhibitors including GNI-50, FK-866, and CHS-828.

SBI-797812 also binds to the NAMPT active site, The K_m values of NAMPT for ATP without and with SBI-797812 were 1.73 ± 0.32 and 0.29 ± 0.03 mM, respectively.

SBI-797812 impacted PP consumption and pHisNAMPT reactivity.

SBI-797812 dose-dependently elevated of intracellular NMN and NAD⁺ levels in A549 cells with 1.5, 1.7, and 2.2-fold in the presence of 0.4, 2, and 10 uM SBI-797812.

SBI-797812 promoted PARP-1 activity in the cellular lysate.

SBI-797812 (20 mg kg⁻¹ i.p.) caused a significant 1.3-fold increase of NAD⁺ was detected in liver and cardiac tissue in treated mice.

References

Gardell SJ, et al. *Nat Commun.* 2019 Jul 19;10(1):3241.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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