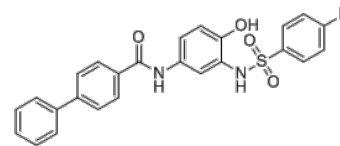


Product Name : SN-011
Cat. No. : PC-38078
CAS No. : 2249435-90-1
Molecular Formula : C₂₅H₁₉FN₂O₄S
Molecular Weight : 462.495
Target : STING
Solubility : 10 mM in DMSO



Biological Activity

SN-011 (SN011) is a potent, selective STING antagonist with IC₅₀ of 76 nM (STING signaling inhibition). SN-011 binds with higher affinity (K_d=4.03 nM) to the cyclic dinucleotide (CDN)-binding pocket of STING than endogenous 2'3'-cGAMP (K_d=9.23 nM). SN-011 (1 μM) significantly suppresses the induction of Ifnb, Cxcl10, and Il6 mRNA in MEFs activated by various canonical STING stimulators (ISD, HT-DNA, HSV-1, c-di-GMP, and 2'3'-cGAMP). SN-011 specifically inhibits STING activation and STING-dependent signaling. SN-011 suppresses systemic inflammation and death in Trex1^{-/-} mice.

References

Hong Z, et al. Proc Natl Acad Sci U S A. 2021 Jun 15;118(24):e2105465118.

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

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