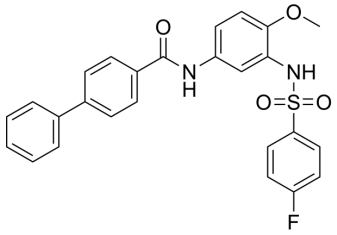
SN-001

Cat. No.:	HY-W140974
CAS No.:	727699-84-5
Molecular Formula:	$C_{26}H_{21}FN_2O_4S$
Molecular Weight:	476.52
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (524.64 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0985 mL	10.4927 mL	20.9855 mL
	5 mM	0.4197 mL	2.0985 mL	4.1971 mL
	10 mM	0.2099 mL	1.0493 mL	2.0985 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SN-001 is a STING inhibitor with an IC_{50} of 3.82 μM[1].

IC_{50} & Target

IC_{50}: 3.82 μM (STING)[1]

In Vitro

SN-001 targets the cyclic dinucleotide binding pocket of human STING[1].
SN-001 (5-20 μM; 6 h) significantly impairs the induction of Ifnb mRNA, in a dose-dependent manner in L929 cells[1].
SN-001 (10 μM; 3 h) inhibits cytosolic DNA-triggered STING signaling[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	L929 cells
Concentration:	10 μM

Incubation Time:	3 h
Result:	Decreased cytosolic DNA-induced phosphorylation of STING, TBK1, IRF3, IκBα, and p65, as well as nuclear translocation of IRF3 and p65.

REFERENCES

[1]. Hong Z, et al. STING inhibitors target the cyclic dinucleotide binding pocket. Proc Natl Acad Sci U S A. 2021 Jun 15;118(24):e2105465118.

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