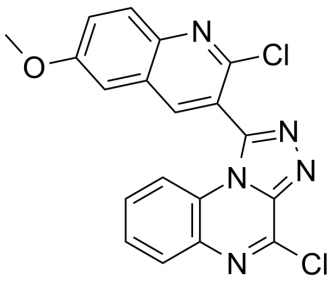
STING agonist-16

Cat. No.:	HY-131994
CAS No.:	652142-94-4
Molecular Formula:	$C_{19}H_{11}Cl_2N_5O$
Molecular Weight:	396.23
Target:	STING
Pathway:	Immunology/Inflammation
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 : 5 mg/mL (12.62 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5238 mL	12.6189 mL	25.2379 mL
	5 mM	0.5048 mL	2.5238 mL	5.0476 mL
	10 mM	0.2524 mL	1.2619 mL	2.5238 mL

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

BIOLOGICAL ACTIVITY

Description

STING agonist-16 (1a) is a specific stimulator of interferon genes (STING) agonist. STING agonist-16 (1a) can be used as a potential antiviral and antitumor tool[1].

In Vitro

STING agonist-16 (1a) (0-100 μM, 6 h) can promote mRNA expression of IFNβ, CXCL-10 and IL-6 in a dose-dependent manner with no significant cytotoxic effect up to 100 μM in human myeloid leukemia mononuclear cells (THP1)[1].

STING agonist-16 (1a) (50 μM, 2 h) significantly induces the phosphorylation of STING, TANK-binding kinases1 (TBK1) and interferon regulatory factor 3 (IRF3) in THP1 cells[1].

STING agonist-16 (1a) activates secretory alkaline phosphatase (SEAP) in a dose-dependent manner with an EC_{50} value of 16.77 μM while 2'3'-cGAMP acts with an EC_{50} value of 9.212 μM[1].

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

REFERENCES

[1]. Hui Hou, et al. Discovery of triazoloquinoxaline as novel STING agonists via structure-based virtual screening. Bioorg Chem. 2020 Jul;100:103958.

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