E7766 diammonium salt

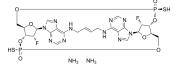|	
Cat. No.:	HY-111999A
CAS No.:	2242635-03-4
Molecular Formula:	$C_{24}H_{32}F_2N_{12}O_8P_2S_2$
Molecular Weight:	780.66
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	-20°C, sealed storage, away from moisture and light
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro	H_2O : 45 mg/mL (57.64 mM; Need ultrasonic)			
	Preparing Stock Solutions			

Mass Solvent Concentration	1 mg	5 mg	10 mg
1 mM	1.2810 mL	6.4048 mL	12.8097 mL
5 mM	0.2562 mL	1.2810 mL	2.5619 mL
10 mM	0.1281 mL	0.6405 mL	1.2810 mL

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

BIOLOGICAL ACTIVITY

Description	E7766 diammonium salt is a macrocycle-bridged STING agonist with a K_d of 40 nM. E7766 diammonium salt shows potent pan-genotypic and antitumor activities[1].
In Vitro	E7766 diammonium salt inhibits four human STING variants, human wild-type, HAQ, AQ and REF STING proteins, with EC_{50} values of 1 μM, 2.2 μM, 1.2 μM and 4.9 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In murine colon cancer model, a single intratumoral injection of 10 mg/kg E7766 diammonium salt in the subcutaneous tumor. E7766 diammonium salt is shown to have potent antitumor activity with long lasting immune memory response in a mouse liver metastatic tumor model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dae-Shik Kim, et al. E7766, a Macrocycle-Bridged Stimulator of Interferon Genes (STING) Agonist with Potent Pan-Genotypic Activity. ChemMedChem. 2021 Jun 7;16(11):1740-1743.