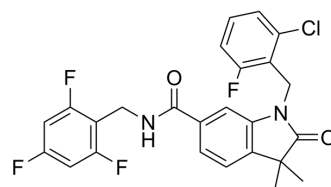


STING agonist-12

Cat. No.:	HY-147010
CAS No.:	2259624-71-8
Molecular Formula:	C ₂₅ H ₁₉ ClF ₄ N ₂ O ₂
Molecular Weight:	490.88
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 (509.29 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.0372 mL	10.1858 mL	20.3716 mL	
5 mM	0.4074 mL	2.0372 mL	4.0743 mL	
10 mM	0.2037 mL	1.0186 mL	2.0372 mL	

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

BIOLOGICAL ACTIVITY

Description

STING agonist-12 (Compound 53) is a potent, orally active human STING activator with an EC₅₀ of 185 nM^[1].

IC₅₀ & Target

EC₅₀: 185 nM (STING)^[1]

In Vitro

STING agonist-12 (Compound 53) (10 μM) shows excellent pan-polymorph activity across the panel of STING proteins (92%, 107% and 92% against R232, H232 and HAQ, respectively) in HEK293T cells^[1].

STING agonist-12 is not active at mouse STING^[1].

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

In Vivo

STING agonist-12 (Compound 53) (5 mpk for i.v.; 10 mpk for p.o.) is well-absorbed with a short terminal half-life^[1].

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

Animal Model:	Balb/c mice (n=3) ^[1]
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Dosage:	5 or 10 mpk
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Administration: Lateral tail vein or oral gavage (Pharmacokinetic Analysis)

Result: Pharmacokinetic profile of STING agonist-12 (Compound 53) in mouse^[1].

Route	DOSE (mpk)	AUC (ng/mL*h)	T _{1/2} (h)	C _{max} (ng/mL)	V _d (mL/kg)	F (%)
IV	5	1215	1.41	1867	2689	NA
PO	10	2090	NA	1723	NA	86

REFERENCES

[1]. Pryde DC, et al. The discovery of potent small molecule activators of human STING. Eur J Med Chem. 2021 Jan 1;209:112869.

Caution: Product has not been fully validated for medical applications. For research use only.

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