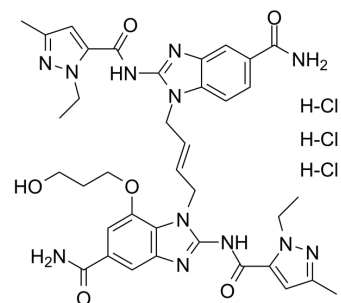


STING agonist-3 trihydrochloride

Cat. No.:	HY-103665A
Molecular Formula:	C ₃₇ H ₄₅ Cl ₃ N ₁₂ O ₆
Molecular Weight:	860.19
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	STING agonist-3 trihydrochloride, extracted from patent WO2017175147A1 (example 10), is a selective and non-nucleotide small-molecule STING agonist with a pEC ₅₀ and pIC ₅₀ of 7.5 and 9.5, respectively. STING agonist-3 trihydrochloride has durable anti-tumor effect and tremendous potential to improve treatment of cancer ^[1] .
IC₅₀ & Target	STING ^[1]
In Vitro	STING agonist-3 trihydrochloride exhibits a pEC ₅₀ value of 7.5 in activation of STING in cells, this assay is determined using a luciferase reporter assay in human embryonic kidney cells (HEK293T) co-transfected with plasmids expressing STING and the enzyme firefly luciferase driven by the interferon stimulated response element promoter ^[1] . STING agonist-3 trihydrochloride exhibits a pIC ₅₀ value of 9.5 in FRET assay. This is a competition binding assay which aims to determine the binding potency of molecules to the C-terminal Domain (CTD) of human STING ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2022 Oct;610(7933):761-767.
- Signal Transduct Target Ther. 2023 Feb 24;8(1):79.
- Signal Transduct Target Ther. 2021 Mar 15;6(1):123.
- Cancer Immunol Res. 2023 Mar 15;CIR-22-0483.
- Clin Transl Med. 2020 Nov;10(7):e228.

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REFERENCES

[1]. Adam Kenneth, et al. Heterocyclic amides useful as protein modulators.patent WO2017175147A1

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

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