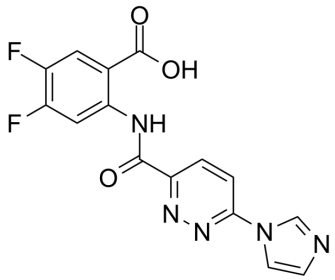
SR-717 free acid

Cat. No.:	HY-131454A
CAS No.:	2375420-34-9
Molecular Formula:	$C_{15}H_9F_2N_5O_3$
Molecular Weight:	345.26
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SR-717 free acid is a non-nucleotide STING agonist with EC_{50}s of 2.1 μM and 2.2 μM in ISG-THP1 (WT) and ISG-THP1 cGAS KO (cGAS KO) cell lines, respectively. SR-717 free acid is a stable cyclic guanosine monophosphate-adenosine monophosphate (cGAMP) mimetic. Antitumor activity[1].
In Vitro	SR-717 activates STING by inducing the same closed conformation, which thereby provides an avenue to explore this class of systemic STING agonist in diverse contexts, including antitumor immunity[1]. SR-717 (3.8 μM) induces the expression of PD-L1 in THP1 cells and in primary human peripheral blood mononuclear cells in a STING-dependent manner[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SR-717 (30 mg/kg intraperitoneal once-per-day for 1 week) shows antitumor activities in WT or $Sting^{gt/gt}$ mice[1]. SR-717 (30 mg/kg intraperitoneally for 7 days) displays antitumor activity; promotes the activation of $CD8^+$ T, natural killer, and dendritic cells in relevant tissues; and facilitates antigen cross-priming[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	WT or $Sting^{gt/gt}$ mice[1]
Dosage:	30 mg/kg
Administration:	Intraperitoneally; once-per-day for 1 week
Result:	Maximally inhibited tumor growth.

REFERENCES

[1]. Emily N Chin, et al. Antitumor activity of a systemic STING-activating non-nucleotide cGAMP mimetic. Science. 2020 Aug 21;369(6506):993-999.

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

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