Ulevostinag

Cat. No.: HY-139586

CAS No.: 2082743-96-0

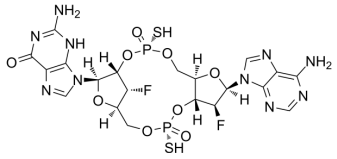
Molecular Formula: $C_{20}H_{22}F_2N_{10}O_9P_2S_2$

Molecular Weight: 710.52

Target: STING

Pathway: Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ulevostinag (MK-1454) is a potent cyclic dinucleotide agonist stimulator of interferon genes (STING). Ulevostinag (MK-1454) acts in the intra-tumoral route by targeting the stimulator of interferon genes (STING) protein. Ulevostinag (MK-1454) can be used for immuno-tumor cancer disease research[1].

In Vivo

Ulevostinag (MK-1454) (5 μg, 20 μg for intratumorally) can activate tumor-specific immune responses in MC38 injected tumors and inhibit tumor growth at untreated, distal sites[1].

Ulevostinag (MK-1454) (4 μg for intratumorally on day 0, 3 and 7) results in complete tumor regression and enhances the efficacy of anti-PD1 therapy in MC38 and B16F10 tumor mice model[1].

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

Animal Model:	MC38 colon adenocarcinoma tumor-bearing mice[1]
Dosage:	5 μg, 20 μg
Administration:	intratumorally
Result:	Regressed the injected (right) tumors and was detected in injected and noninjected tumors as well as plasma when dosed at 20 μg. Elevated IFN-β and proinflammatory cytokines IL-6 and TNF-α in injected tumors.

Animal Model:	MC38 and B16F10 tumor mice model[1]
Dosage:	4 μg
Administration:	intratumorally
Result:	Improved tumor growth inhibition with 7 CRs out of 10 mice over 28 days.

REFERENCES

[1]. Chang W, et al. Discovery of MK-1454: A Potent Cyclic Dinucleotide Stimulator of Interferon Genes Agonist for the Treatment of Cancer. J Med Chem. 2022 Apr 14;65(7):5675-5689.

[2]. Zawit M, et al. Current status of intralesional agents in treatment of malignant melanoma. Ann Transl Med. 2021 Jun;9(12):1038.

[3]. Gogoi H, et al. The Age of Cyclic Dinucleotide Vaccine Adjuvants. Vaccines (Basel). 2020 Aug 13;8(3):453.

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