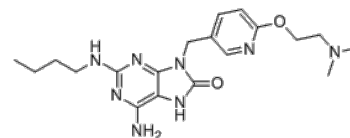


Product Name : DSR-6434
Cat. No. : PC-20226
CAS No. : 1059070-10-8
Molecular Formula : C₁₉H₂₈N₈O₂
Molecular Weight : 400.49
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

DSR-6434 (DSR6434) is a highly potent, specific **TLR7** agonist with EC₅₀ of 7.2 nM (hTLR7) and 4.6 nM (mTLR7) for stimulating reporter gene activity in HEK293 cells expressing TLR7.

DSR-6434 shows no activity in HEK293 cells expressing the structurally similar hTLR8 or hTLR9.

DSR-6434 induces type 1 interferon and activation of T and B lymphocytes, NK and NKT cells.

DSR-6434 intravenous administration enhances the efficacy of ionizing radiation (IR) and leads to improved survival in mice bearing either CT26 or KHT tumors.

DSR-6434 in combination with IR primes an antitumor CD8⁺ T-cell response leading to improved survival in syngeneic models of colorectal carcinoma and fibrosarcoma.

References

Nakamura T, et al. *Bioorg Med Chem Lett*. 2013 Feb 1;23(3):669-72.

Adlard AL, et al. *Int J Cancer*. 2014 Aug 15;135(4):820-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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