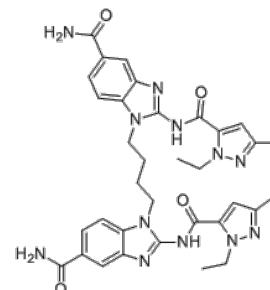


Product Name : STING agonist diABZI compound 2
Cat. No. : PC-35783
CAS No. : 2138300-40-8
Molecular Formula : C₃₄H₃₈N₁₂O₄
Molecular Weight : 678.758
Target : STING
Solubility : 10 mM in DMSO



Biological Activity

STING agonist diABZI compound 2 is an amidobenzimidazole (ABZI)-based compound that functions as a **STING** agonist with K_d of 1.6 nM (binding of endogenous full-length STING, THP-1 cell lysates).

STING agonist diABZI compound 2 caused dose-dependent phosphorylation of IRF3 and STING that was inhibited by the TBK1 inhibitor BX795, induced dose-dependent secretion of IFN-β with EC₅₀ of 3.1 μM in PBMCs (18-fold more potent than cGAMP).

STING agonist diABZI compound 2 promotes production of IFN-γ-induced protein 10 (IP-10), IL-6 and TNFα by a mechanism that is dependent on STING-mediated activation of TBK1.

Unlike cGAMP and DMXAA, compound 2 efficiently activates STING function while maintaining an open STING confirmation.

References

Ramanjulu JM, et al. *Nature*. 2018 Nov 7. doi: 10.1038/s41586-018-0705-y.

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

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