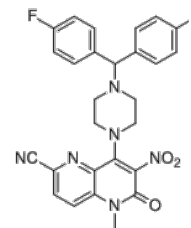


Product Name : BMS-502
Cat. No. : PC-20914
CAS No. : 2407854-18-4
Molecular Formula : C₂₇H₂₂F₂N₆O₃
Molecular Weight : 516.51
Target : Diacylglycerol Kinase (DGK)
Solubility : 10 mM in DMSO



CAS: 2407854-18-4

Biological Activity

BMS-502 (BMS502) is a potent, selective dual diacylglycerol kinases alpha and zeta (**DGKα and DGKζ**) inhibitor with IC₅₀ of 4.6 and 2.1 nM, respectively.

BMS-502 displays limited inhibitory activity toward the β, γ, and κ isoforms (IC₅₀ values=0.68-4.6 μM).

BMS-502 demonstrates EC₅₀ values of 280 and 340 nM in human whole-blood (hWB) measuring IFNγ production and phosphorylation of extracellular signal-regulated kinase (pERK), respectively.

BMS-502 inhibits proliferation of human effector CD8⁺ T-cells with EC₅₀ of 65 nM, potentiates the immune response initiated by TcR activation.

BMS-502 (10 mpk, po) demonstrates dose-dependent immune stimulation in the mouse OT-1 model.

References

Louis Chupak, et al. *ACS Med Chem Lett.* 2023 Jun 12;14(7):929-935.

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

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