

Product Name : Compound K
Cat. No. : PC-72055
CAS No. : 2320462-65-3
Molecular Formula : C₂₄H₂₂N₆O₄
Molecular Weight : 458.478
Target : MAP4K
Solubility : 10 mM in DMSO



Biological Activity

Compound K (HPK1 inhibitor CompK) is a novel, potent, highly selective HPK1 (**MAP4K1**) kinase inhibitor with IC₅₀ of 2.6 nM, 50-fold selectivity against other members of the MAP4K family.

Compound K enhanced IFN- γ production in human CD8⁺ T cells with EC₅₀ of 137 nM, showed potential benefit in restoring T-cell polyfunctionality under immunosuppressive conditions relevant to the TME.

CompK treatment demonstrated markedly enhanced human T-cell immune responses under immunosuppressive conditions relevant to the TME and an increased avidity of the T-cell receptor (TCR) to recognize viral and tumor-associated antigens (TAAs) in significant synergy with anti-PD1.

Animal model studies, revealed improved immune responses and superb antitumor efficacy in combination of CompK with anti-PD-1.

References

Dan You, et al. *J Immunother Cancer*. 2021 Jan;9(1):e001402.

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

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