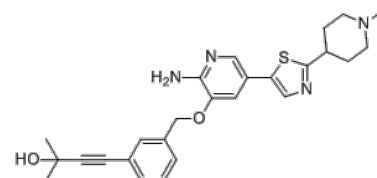


Product Name : ZYF0033
Cat. No. : PC-72305
CAS No. : 2380300-79-6
Molecular Formula : C₂₆H₃₀N₄O₂S
Molecular Weight : 462.612
Target : MAP4K
Solubility : 10 mM in DMSO



Biological Activity

ZYF0033 (ZYF 0033) is potent, selective, small-molecule inhibitor of **HPK1** (MAP4K1) with IC₅₀ of <10 nM based on the phosphorylation inhibition of MBP protein.

ZYF0033 successfully decreased the phosphorylation of SLP76 (serine 376), a critical biomarker of T cell and HPK1 activation.

ZYF0033 promoted anticancer immune responses, inhibited tumor growth and caused increased intratumoral infiltration of DCs, NK cells, and CD107a+CD8+ T cells but decreased infiltration of regulatory T cells, PD-1+CD8+ T cells, TIM-3+CD8+ T cells, and LAG-3+CD8+ T cells in the 4T-1 syngeneic mouse model.

ZYF0033 significantly increased the proliferation of CD4+ and CD8+ T cells (Figure S7I) and the secretion of IFN-γ in bone-marrow-derived DCs.

References

Jingwen Si, et al. *Cancer Cell*. 2020 Oct 12;38(4):551-566.e11.

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

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