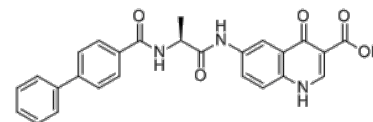


Product Name : PTPN22 inhibitor L-1
Cat. No. : PC-72034
CAS No. : 2580935-57-3
Molecular Formula : C₂₆H₂₁N₃O₅
Molecular Weight : 455.47
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

PTPN22 inhibitor L-1 is a selective, competitive small molecule inhibitor of **PTPN22** with IC₅₀ of 1.4 μM, K_i of 0.5 μM, 7- to 10-fold selectivity for PTPN22 over 16 similar PTPs.

PTPN22 inhibitor L1 phenocopied the antitumor effects seen in genotypic PTPN22 knockout.

PTPN22 inhibition via PTPN22 inhibitor L1 promoted activation of CD8⁺ T cells and macrophage subpopulations toward MHC-II expressing M1-like phenotypes, both of which were necessary for successful antitumor efficacy.

Targeting PTPN22 via PTPN22 inhibitor L1 is nonredundant with and augments anti-PD-1 therapy.

References

Won Jin Ho, et al. *J Clin Invest*. 2021 Jul 20;131(17):e146950.

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

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