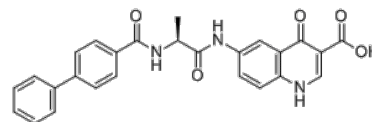


**Product Name** : PTPN22 inhibitor L-1  
**Cat. No.** : PC-72034  
**CAS No.** : 2580935-57-3  
**Molecular Formula** : C<sub>26</sub>H<sub>21</sub>N<sub>3</sub>O<sub>5</sub>  
**Molecular Weight** : 455.47  
**Target** : Protein Phosphatase/PTP  
**Solubility** : 10 mM in DMSO



### Biological Activity

PTPN22 inhibitor L-1 is a selective, competitive small molecule inhibitor of **PTPN22** with IC<sub>50</sub> of 1.4 μM, K<sub>i</sub> 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<sup>+</sup> 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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