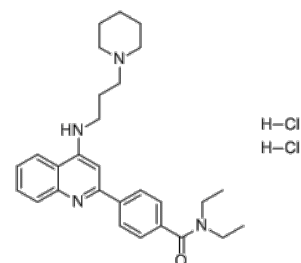


Product Name : LMPTP inhibitor 23 dihydrochloride
Cat. No. : PC-21977
CAS No. : 2310135-46-5
Molecular Formula : C₂₈H₃₈Cl₂N₄O
Molecular Weight : 517.54
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

LMPTP inhibitor 23 dihydrochloride is a potent, selective, orally bioavailable low-molecular-weight protein tyrosine phosphatase (LMPTP) inhibitor with IC₅₀ of 0.8 μM.

LMPTP inhibitor 23 displays exquisite selectivity for LMPTP versus other PTPs including PTP1B, shows greater potency on LMPTP-A versus LMPTP-B.

LMPTP inhibitor 23 inhibits uncompetitively LMPTP with K_i of 846 nM.

LMPTP inhibitor 23 substantially increases HepG2 IR phosphorylation after insulin stimulation and reverses diabetes in mice without causing overt toxicity or weight loss.

References

Stanford SM, et al. Nat Chem Biol. 2017 Jun;13(6):624-632.

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

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