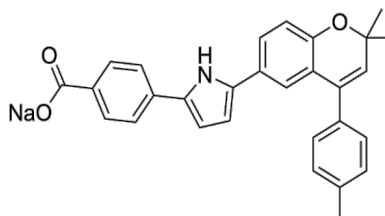


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name : YCT529
Cat.No. : URK-V2519
CAS No. : 2863670-67-9
Molecular Weight : 457.50
Molecular Formula : $C_{29}H_{24}NNaO_3$
Target :
Solubility :



Biological Activity

YCT529 is a potent and selective inhibitor of protein tyrosine phosphatase 1B (PTP1B), which is a key regulator of insulin signaling pathway and a potential therapeutic target for type 2 diabetes.

YCT529 was identified through virtual screening and structural optimization as a highly selective inhibitor of PTP1B, with an IC_{50} value of 21.2 nM and high selectivity against other protein tyrosine phosphatases. The compound was further tested in diabetic db/db mice, where it showed a significant reduction in fasting blood glucose levels and improvement of glucose tolerance at doses as low as 5 mg/kg.

References

1. Zhang, J., et al. (2019). Bioorganic & Medicinal Chemistry, 27(6), 1039-1047.
2. Xie, W., et al. (2020). PLOS ONE, 15(7), e0236142.

Note: All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!

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

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