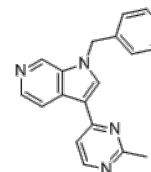


Product Name : AZ Dyrk1B 33
Cat. No. : PC-49263
CAS No. : 1679330-37-0
Molecular Formula : C₁₉H₁₆N₄
Molecular Weight : 300.365
Target : DYRK
Solubility : 10 mM in DMSO



Biological Activity

AZ Dyrk1B 33 is a potent dual-specificity tyrosine phosphorylation-regulated kinase (**DYRK**) inhibitor with IC₅₀ of 16.8/39/254/430 nM for DYRK1A/1B/2/3, respectively, does not inhibit DYRK4 (IC₅₀>30 μM).

AZ Dyrk1B 33 decreased glucose levels in both larval and juvenile fish, recapitulated the effect on Tg(gip:nLuc) zebrafish at a lower concentration, also increased the number of K- and L-cells, did not change the number of beta-cells.

AZ Dyrk1B 33 promoted enteroendocrine cell differentiation through Nfatc4.

AZ Dyrk1B 33 (10 mg/kg, oral gavage) increases the prevalence of incretin+ cells and improved glucose control in diabetic mice.

References

Lianhe Chu, et al. *Cell Chem Biol.* 2022 Aug 17;S2451-9456(22)00277-X.

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

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