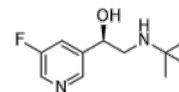


Product Name : ATR-258
Cat. No. : PC-24799
CAS No. : 2301983-88-8
Molecular Formula : C₁₁H₁₇FN₂O
Molecular Weight : 212.27
Target : Adrenergic Receptor
Solubility : 10 mM in DMSO



CAS: 2301983-88-8

Biological Activity

ATR-258 (Compound 15) is a specific GRK-biased β 2 adrenergic receptor (**β 2AR**) agonist with pEC50 of 6.87, increases glucose uptake with low cAMP generation.

ATR-258 induces minimal internalization compared with compounds that stimulate β -arrestin recruitment.

ATR-258 acts as a competitive β 1AR antagonist and shows weak partial agonist activity at β 3AR at 10 μ M, exhibits high selectivity in the glucose uptake assay.

ATR-258 (0.3 or 0.1 mg/kg) by daily oral gavage for 18 days promotes glucose control with reduced side effects in mouse model of diabetes, acting through GRK2 to mediate glucose uptake in skeletal muscle and improve glycemic control.

ATR-258 (10 mg/kg/day) by daily oral gavage improves muscle mass in a rodent model for diabetic muscular atrophy.

References

Motso A, et al. *Cell*. 2025 Jun 19:S0092-8674(25)00630-0.

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

E-mail: tech@probechem.com