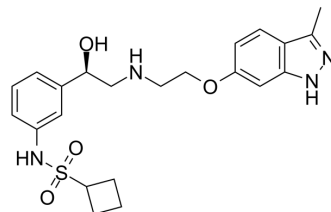


β3-AR agonist 1

Cat. No.:	HY-101514
CAS No.:	1283125-73-4
Molecular Formula:	C ₂₂ H ₂₈ N ₄ O ₄ S
Molecular Weight:	444.55
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	β3-AR agonist 1 (compound 15) is a highly potent, selective, and orally available β3-adrenergic receptor (β3-AR) agonist (EC ₅₀ =18 nM), being inactive to β1-, β2-, and α1A-AR (β1/β3, β2/β3, and α1A/β3>556-fold) ^[1] .
IC₅₀ & Target	EC ₅₀ : 18 nM (β3-AR) ^[1]
In Vivo	β3-AR agonist 1 (compound 15) shows dose-dependent β3-AR-mediated responses in marmoset urinary bladder smooth muscle, has a desirable metabolic stability and pharmacokinetic profile (C _{max} and AUC), and do not obviously affect heart rate or mean blood pressure when administered intravenously (3 mg/kg) to anesthetized rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wada Y, et al. Discovery of Novel Indazole Derivatives as Orally Available β3-Adrenergic Receptor Agonists Lacking Off-Target-Based Cardiovascular Side Effects. *J Med Chem.* 2017 Apr 27;60(8):3252-3265.

Caution: Product has not been fully validated for medical applications. For research use only.

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