
Product Data Sheet

Product Name: β 3-AR agonist 1

Cat. No.: GC37983

Chemical Properties

Cas. No. 1283125-73-4

SMILES O=S(NC1=CC([C@@H](O)CNCCOC2=CC(NN=C3C)=C3C=C2)=CC=C1)(C4CCC4)=OFormula $C_{22}H_{28}N_4O_4S$ M.Wt 444.55Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$ General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

β 3-AR agonist 1 (compound 15) is a highly potent, selective, and orally available β 3-adrenergic receptor (β 3-AR) agonist ($EC_{50}=18$ nM), being inactive to β 1-, β 2-, and α 1A-AR (β 1/ β 3, β 2/ β 3, and α 1A/ β 3 > 556-fold)[1]. EC_{50} : 18 nM (β 3-AR)[1]

β 3-AR agonist 1 (compound 15) shows dose-dependent β 3-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].

[1]. Wada Y, et al. Discovery of Novel Indazole Derivatives as Orally Available β 3-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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