BI-167107

Cat. No.: HY-121251

CAS No.: 1202235-68-4

Molecular Formula: $C_{21}H_{26}N_2O_4$

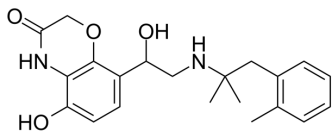
Molecular Weight: 370.44

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 75 mg/mL (202.46 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6995 mL	13.4975 mL	26.9949 mL
	5 mM	0.5399 mL	2.6995 mL	5.3990 mL
	10 mM	0.2699 mL	1.3497 mL	2.6995 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3.75 mg/mL (10.12 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3.75 mg/mL (10.12 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.75 mg/mL (10.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BI-167107 is a high affinity, full agonist that binds to the β2 adrenergic receptor (β2AR) with a dissociation constant K_d of 84 pM[1].

IC_{50} & Target

Kd: 84 pM (β2AR)[1]

In Vitro

Compared to other βAR ligands, BI-167107 displays nanomolar affinities and slow off-rates[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rasmussen SG, et al. Structure of a nanobody-stabilized active state of the β(2) adrenoceptor. Nature. 2011 Jan 13;469(7329):175-80.

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