BRL 37344 sodium

Cat. No.: HY-101325

CAS No.: 127299-93-8

Molecular Formula: $C_{19}H_{21}ClNNaO_4$

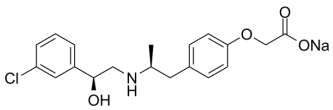
Molecular Weight: 385.82

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.96 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5919 mL	12.9594 mL	25.9188 mL
	5 mM	0.5184 mL	2.5919 mL	5.1838 mL
	10 mM	0.2592 mL	1.2959 mL	2.5919 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 10 mg/mL (25.92 mM); Clear solution; Need ultrasonic and warming

BIOLOGICAL ACTIVITY

Description

BRL 37344 sodium (BRL 37344A) is a specific β3-adrenergic receptor agonist. BRL 37344 sodium treatment significantly lowers the body weight of obese mice[1].

IC_{50} & Target

β3-adrenergic receptor[1]

In Vivo

BRL37344 sodium (BRL 37344A) treatment significantly lowers the body weight of obese mice[1].

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

Animal Model:	Five-week-old male Imprinting Control Region (ICR) mice[1]
Dosage:	2.5 mg/kg
Administration:	Intraperitoneal injection; three times per week for two weeks

Result:	Lowered the body weight of obese mice.

REFERENCES

[1]. Wu C, et al. Activating brown adipose tissue for weight loss and lowering of blood glucose levels: a microPET study using obese and diabetic model mice. PLoS One. 2014 Dec 2;9(12):e113742.

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