(2R)-SR59230A

Cat. No.: HY-100672B

CAS No.: 1932675-95-0

Molecular Formula: $C_{23}H_{29}NO_6$

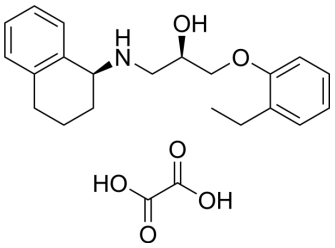
Molecular Weight: 415.48

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 31.25 mg/mL (75.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4069 mL	12.0343 mL	24.0685 mL
	5 mM	0.4814 mL	2.4069 mL	4.8137 mL
	10 mM	0.2407 mL	1.2034 mL	2.4069 mL

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

BIOLOGICAL ACTIVITY

Description

(2R)-SR59230A is the inactive isomer of SR59230A (HY-100672), and can be used as an experimental control. SR59230A is a potent, selective, and blood-brain barrier penetrating β3-adrenergic receptor antagonist[1] with IC_{50}s of 40, 408, and 648 nM for β3, β1, and β2 receptors, respectively[2].

REFERENCES

[1]. Nisoli E, et al. Functional studies of the first selective beta 3-adrenergic receptor antagonist SR 59230A in rat brown adipocytes.Mol Pharmacol. 1996 Jan;49(1):7-14.

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[3]. Bruno G, et al. β3-adrenoreceptor blockade reduces tumor growth and increases neuronal differentiation in neuroblastoma via SK2/S1P2 modulation.Oncogene. 2020 Jan;39(2):368-384.

[4]. Bexis S, et al. Role of alpha 1- and beta 3-adrenoceptors in the modulation by SR59230A of the effects of MDMA on body temperature in the mouse. Br J Pharmacol.

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