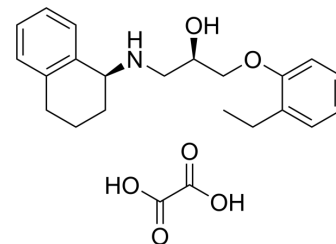


(2R)-SR59230A

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)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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 isomer of SR59230A (HY-100672), and can be used as an experimental control. SR59230A is a potent, selective, and blood-brain barrier penetrating β 3-adrenergic receptor antagonist^[1] with IC₅₀s of 40, 408, and 648 nM for β 3, β 1, and β 2 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.
- [2]. Kanzler SA, et al. Involvement of β 3-adrenergic receptors in the control of food intake in rats. *Braz J Med Biol Res*. 2011 Nov;44(11):1141-7.
- [3]. Bruno G, et al. β 3-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*.

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

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