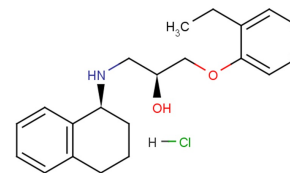


SR59230A hydrochloride

Chemical Properties

CAS No.:	1135278-41-9
Formula:	C ₂₁ H ₂₈ ClNO ₂
Molecular Weight:	361.91
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	SR59230A hydrochloride is a potent, selective, and blood-brain barrier penetrating antagonist of β 3-adrenergic receptor (IC ₅₀ s of 40, 408, and 648 nM for β 3, β 1, and β 2 receptors, respectively).
Targets(IC ₅₀)	β 3 receptor: 40 nM β 1 receptor: 408 nM β 2 receptor: 648 nM
In vitro	In Neuro-2A, BE(2)C and SK-N-BE(2) NB cell lines, SR59230A (100 nM-50 μ M; 24 hours) is able to reduce cell viability in a dose-dependent manner [3].
In vivo	Slowly developing hyperthermia, reaching a maximum increase of 1.8°C at 130 min post-injection produced by MDMA (20 mg/kg). SR59230A (0.5 mg/kg) produces a small but significant attenuation of the slowly developing hyperthermia to MDMA. SR59230A (5 mg/kg) reveals a significant and marked early hypothermic reaction to MDMA[4].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.763 mL	13.816 mL	27.631 mL
5 mM	0.553 mL	2.763 mL	5.526 mL
10 mM	0.276 mL	1.382 mL	2.763 mL
50 mM	0.055 mL	0.276 mL	0.553 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.* 2009 Sep;158(1):259-66.

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