

SR59230A

## Chemical Properties

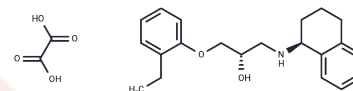
CAS No. : 174689-39-5

Formula: C<sub>23</sub>H<sub>29</sub>N<sub>0</sub>O<sub>6</sub>

Molecular Weight: 415.48

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SR59230A is a potent, selective antagonist of $\beta$ <sub>3</sub> -adrenergic receptor ( $\beta$ <sub>3</sub> , $\beta$ <sub>1</sub> , and $\beta$ <sub>2</sub> receptors with IC <sub>50</sub> s of 40, 408, and 648 nM, respectively).
Targets(IC <sub>50</sub> )	Adrenergic Receptor
In vitro	The specific antagonism of $\beta$ <sub>3</sub> -AR by SR59230A inhibits NB growth and tumor progression, by switching from stemness to cell differentiation both in vivo and in vitro through the specific blockade of SK2/S1P2 signaling[1].

## Solubility Information

Solubility	DMSO: 31.88 mg/mL (76.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.81 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0481 mL	0.2407 mL	0.4814 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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

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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