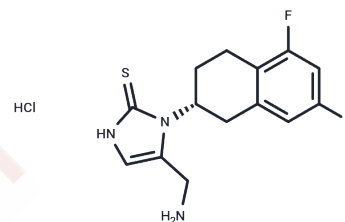


## (R)-Nepicastat HCl

## Chemical Properties

CAS No. :	195881-94-8
Formula:	C <sub>14</sub> H <sub>15</sub> F <sub>2</sub> N <sub>3</sub> ·HCl
Molecular Weight:	331.81
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	(R)-Nepicastat HCl (RS-25560-198 HCl), the R-enantiomer of Nepicastat HCl, is a potent and selective inhibitor with IC <sub>50</sub> of 25.1 nM and 18.3 nM for bovine and human dopamine-β-hydroxylase, with negligible affinity for twelve other enzymes and thirteen neurotransmitter receptors.
Targets(IC <sub>50</sub> )	Hydroxylase
In vitro	(R)-Nepicastat produces concentration-dependent inhibition of bovine and human dopamine-β-hydroxylase activity in vitro. [1]
In vivo	(R)-Nepicastat (30 mg/kg, p.o.) reduces noradrenaline content, dopamine content and dopamine/noradrenaline ratio in mesenteric artery and left ventricle of spontaneously hypertensive rats (SHRs). [1]

## Solubility Information

Solubility	H <sub>2</sub> O: <1 mg/mL, DMSO: 61 mg/mL (183.84 mM), Sonication is recommended. Ethanol: <1 mg/mL, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0138 mL	15.0689 mL	30.1377 mL
5 mM	0.6028 mL	3.0138 mL	6.0275 mL
10 mM	0.3014 mL	1.5069 mL	3.0138 mL
50 mM	0.0603 mL	0.3014 mL	0.6028 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

Stanley WC, et al. Br J Pharmacol. 1997, 121(8), 1803-1809.

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