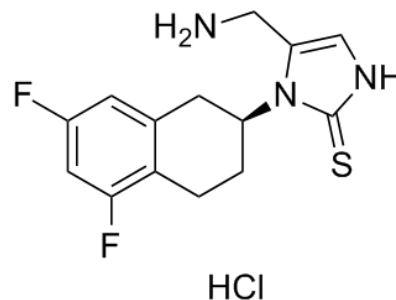


Product Name : Nepicastat hydrochloride
Cat. No. : PC-43467
CAS No. : 170151-24-3
Molecular Formula : C₁₄H₁₆ClF₂N₃S
Molecular Weight : 331.81
Target : Dopamine beta-hydroxylase
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

Nepicastat (RS-25560-197, SYN117) hydrochloride is a potent, selective, orally active inhibitor of **dopamine-beta-hydroxylase** (DBH) with IC₅₀ of 8.5 and 9.0 nM for bovine and human DBH, respectively.

Nepicastat is 2-3 fold more potent than the corresponding R-enantiomer (RS-25560-198).

Nepicastat produces dose-dependent decreases in noradrenaline content, increases in dopamine content and increases in dopamine/noradrenaline ratio in the artery, left ventricle and cerebral cortex in spontaneously hypertensive rats.

References

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- Stanley WC, et al. *J Cardiovasc Pharmacol*. 1998 Jun;31(6):963-70.
- Sabbah HN, et al. *Circulation*. 2000 Oct 17;102(16):1990-5.
- Schroeder JP, et al. *Neuropsychopharmacology*. 2010 Nov;35(12):2440-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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