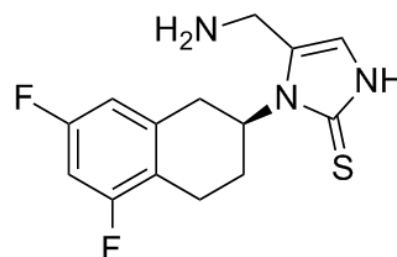


Product Name : Nepicastat
Cat. No. : PC-43466
CAS No. : 173997-05-2
Molecular Formula : C₁₄H₁₅F₂N₃S
Molecular Weight :
Target : Dopamine beta-hydroxylase
Solubility : DMSO: ≥ 48 mg/mL



Biological Activity

Nepicastat (RS-25560-197, SYN-117) 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); 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.

Hypertension
Discontinued

References

- Stanley WC, et al. Br J Pharmacol. 1997 Aug;121(8):1803-9.
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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