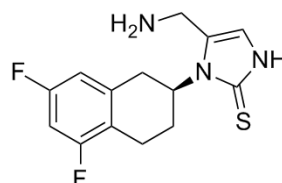


Product Name	: Nepicastat
Synonyms	: SYN117;RS-25560-197;SYN-117;SYN 117
Cat No.	: M12642
CAS Number	: 173997-05-2
Molecular Formula	: C ₁₄ H ₁₅ F ₂ N ₃ S
Formula Weight	: 295.35
Chemical Name	: 2H-Imidazole-2-thione, 5-(aminomethyl)-1-[(2S)-5,7-difluoro-1,2,3,4-tetrahydro-2-naphthalenyl]-1,3-dihydro-
Description	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
Pathway	: Metabolic Enzyme/Protease
Target	: Dopamine beta-hydroxylase
Receptor	: Dopamine beta-hydroxylase
Solubility	: DMSO: ≥ 48 mg/mL
SMILES	: <chem>C1CC2=C(CC1N3C(=CNC3=S)CN)C=C(C=C2F)F</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Stanley WC, et al. Br J Pharmacol. 1997 Aug;121(8):1803-9. 2. Stanley WC, et al. J Cardiovasc Pharmacol. 1998 Jun;31(6):963-70. 3. Sabbah HN, et al. Circulation. 2000 Oct 17;102(16):1990-5. 4. Schroeder JP, et al. Neuropsychopharmacology. 2010 Nov;35(12):2440-9.