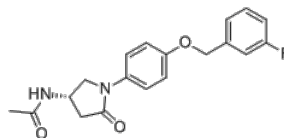


Product Name	: Sembragiline
Synonyms	: RO4602522; RG1577; EVT 302
Cat No.	: M15584
CAS Number	: 676479-06-4
Molecular Formula	: C ₁₉ H ₁₉ N ₂ O ₃
Formula Weight	: 342.37
Chemical Name	: (3S)-N-[1-[4-(3-fluorobenzoyloxy)-phenyl]-5-oxo-pyrrolidin-3-yl] acetamide
Description	Sembragiline (RO4602522, RG1577, EVT 302) is a novel potent, selective, orally available monoamine oxidase B (MAO-B) inhibitor with IC₅₀ of 5.9 nM, >600-fold selectivity over MAO-A; displays no affinity for more than 100 different receptors, enzymes and ion channels; protects against neuronal loss and reduces both ROS formation and reactive astrogliosis in transgenic animal model conditionally overexpressing MAO-B in astroglia, exhibits potential for treatment of Alzheimer's disease (AD) and other neurodegenerative disorders. Alzheimer Disease Phase 2 Clinical
Pathway	: Metabolic Enzyme/Protease
Target	: MAO
Receptor	: MAO
Solubility	: —
SMILES	: <chem>CC(N[C@@H](C1)CN(C2CCC(OCC3=CC=CC(F)=C3)CC2)C1=O)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Borroni E, et al. J Pharmacol Exp Ther. 2017 Sep;362(3):413-423. | 2. Nave S, et al. J Alzheimers Dis. 2017;58(4):1217-1228. | 3. Yeon SK, et al. Bioorg Med Chem. 2018 Jan 1;26(1):232-244.