

Product Name	: KYP-2047
Synonyms	: —
Cat No.	: M22395
CAS Number	: 796874-99-2
Molecular Formula	: C ₂₀ H ₂₅ N ₃ O ₂
Formula Weight	: 339.44
Chemical Name	: —
Description	<p>KYP-2047 is a very potent, selective Prolyl oligopeptidase (POP) inhibitor. In cell lines, oxidative stress induced a robust aggregation of α-synuclein, and low concentrations of KYP-2047 significantly reduced the number of cells with α-synuclein inclusions while abolishing the colocalization of α-synuclein and PREP. KYP-2047 significantly reduced the amount of aggregated α-synuclein, and it had beneficial effects on cell viability. In the transgenic mice, a 5-day treatment with the PREP inhibitor reduced the amount of α-synuclein immunoreactivity and soluble α-synuclein protein in the brain.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: Prolyl oligopeptidase (pop)
Solubility	: —
SMILES	: <chem>O=C(CCCc1ccccc1)N1CCC[C@H]1C(=O)N1CCC[C@H]1C#N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. T T My?h?nen I, M J Hannula, R Van Elzen, et al. A prolyl oligopeptidase inhibitor, KYP-2047, reduces α -synuclein protein levels and aggregates in cellular and animal models of Parkinson's disease. Br J Pharmacol. 2012 Jun; 166(3):1097-113.