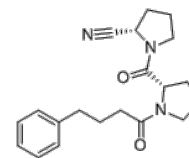


Product Name : KYP-2047
Cat. No. : PC-38478
CAS No. : 796874-99-2
Molecular Formula : C₂₀H₂₅N₃O₂
Molecular Weight : 339.44
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

KYP-2047 is a high affinity **prolyl oligopeptidase** (PREP) inhibitor with K_i of 0.023 nM, reduces α -synuclein protein levels and aggregates in cellular and animal models of PD.

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.

KYP-2047 reduced the amount of α -synuclein immunoreactivity and soluble α -synuclein protein in the brain in animal models of Parkinson's disease.

KYP-2047 also reduced tongue squamous cell-carcinoma (TSCC) cell viability at 50 and 100 μ M, significantly reduced tumor burden and tumor weight, decreasing also angiogenesis markers VEGF and eNOS.

References

Jalkanen AJ, et al. *Basic Clin Pharmacol Toxicol*. 2011 Dec;109(6):443-51.

Jalkanen AJ, et al. *Neurosci Lett*. 2011 Sep 15;502(2):107-11.

Myöhänen TT, et al. *Br J Pharmacol*. 2012 Jun;166(3):1097-113.

Scuderi SA, et al. *Oncotarget*. 2021 Dec 7;12(25):2459-2473.

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

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