

NPT100-18A

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	NPT100-18A is an inhibitor of α -synuclein oligomerization. It can restore cleaved caspase-3 levels to normal. NPT100-18A reduces mitochondrial oxidative stress probe levels in a compartment-specific manner and, at high concentrations, can increase ATP signaling. NPT100-18A is useful for research in Parkinson's disease (PD).
Targets(IC50)	Caspase
In vitro	NPT100-18A (10 nM) reduces the number of Triton-X100 insoluble α -synuclein aggregates in iPSC-derived mDAN. It specifically decreases mitochondrial ROS levels in iPSC-derived mDAN without affecting overall intracellular ROS levels. At a concentration of 1 μ M, NPT100-18A significantly enhances ATP signaling in iPSC-derived mDAN. Administering NPT100-18A (10 nM) over 21 days notably reduces the percentage of cCasp3 ⁺ neurons in iPSC-derived mDAN and inhibits early neuron apoptosis pathways associated with α -synuclein.
In vivo	NPT100-18A (1-20 mg/kg, intraperitoneally, once daily for 90 days) significantly improved motor dysfunction in mThy1-wt- α -syn transgenic mice and reduced α -syn oligomers and associated neurodegenerative pathology.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481