
Product Data Sheet

Product Name: P110
Cat. No.: GC50599

Chemical Properties

Cas. No. 1411976-18-5

Formula $C_{100}H_{179}N_{45}O_{25}$ M.Wt 2411.8

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Dynamin-related protein 1 (Drp1) inhibitor, inhibits Drp1 GTPase activity. Displays no effect on dynamin 1 or other mitochondrial dynamics-related proteins. Inhibits mitochondrial fission, dysfunction and reactive oxygen species (ROS) production in vitro. Reduces programmed cell death and improves cell viability by protecting mitochondrial integrity. Reduces mitochondrial fragmentation and mitochondrial ROS production in mouse model of Parkinson's disease. Cell permeable.

Qi et al (2013) A novel Drp1 inhibitor diminishes aberrant mitochondrial fission and neurotoxicity. J.Cell Sci. 126 789 PMID:23239023 | Filichia et al (2016) Inhibition of Drp1 mitochondrial translocation provides neural protection in dopaminergic system in a Parkinson's disease model induced by MPTP. Sci.Rep. 13 32656 PMID:27619562

Caution: Product has not been fully validated for medical applications. For research use only.

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