

NCT-504 biochemical

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CATALOG #
AAA227523

PRODUCT SYNONYMS

NCT-504; NCT-504 biochemical

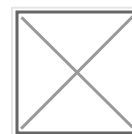
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1222765-97-0
Targets&IC50	PIP4Kgamma:15.8 uM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	NCT-504 does not impair the intrinsic ATP-hydrolytic activity of PIP4Kgamma in the absence of PI5P substrate[1]. NCT-504 does not inhibit PIP4Kbeta and weakly inhibits PIP4Kalpha phosphorylation of PI5P[1]. NCT-504 does not inhibit PIP4Kbeta or PIP4Kalpha (IC 50 between 50 uM and 100 uM) at 50 uM concentration[1]. NCT-504 elevates the levels of PI(3,5)P2, PI3P and PI5P in MEFs[1]. NCT-504 (10 uM; 12 hours) does not affect cell viability in MEFs[1]. NCT-504 (5 uM, 10 uM; 2 hours, 6 hours) elevates both the induction of autophagy as well as the rate of turnover of autophagic cargo[1]. NCT-504 treatment causes a robust increase in the formation of autolysosomes with only a modest elevation in autophagosomes[1]. NCT-504 increases autophagy flux and decreases huntingtin protein in 293A cells[1]. NCT-504 reduces mHtt protein levels in immortalized striatal cells from knock-in HD mice[1]. Western Blot Analysis[1]Cell Line: HEK293T cells Concentration: 5 uM, 10 uM Incubation Time: 2 hours, 6 hours. Result: Induced autophagosome formation.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
SCO-267, CAS 1656261-09-4



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ADDITIONAL INFORMATION

Related Product Information for NCT-504 biochemical	NCT-504 is a selective allosteric inhibitor of PIP4Kgamma, with an IC 50 of 15.8 uM. NCT-504 is potential for the research of Huntington's disease.
References	1. Koyama R, et al. Chronic Exposure to SCO-267, an Allosteric GPR40 Full Agonist, Is Effective in Improving Glycemic Control in Rats. Mol Pharmacol. 2021 Apr;99(4):286-293.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.