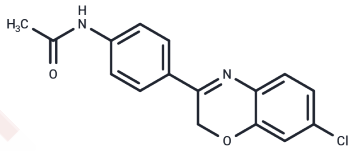
Data Sheet (Cat.No.T4663)

TargetMol

QX77

Chemical Properties



CAS No. : 1798331-92-6

Formula: C16H13ClN2O2

Molecular Weight: 300.74

Appearance: no data available

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

Biological Description

Description	QX77 is a chaperone-mediated autophagy (CMA) activator.
Targets(IC50)	Autophagy
In vitro	Treatment with CMA activator QX77 rescues Rab11 down-regulation and trafficking deficiency in cystinotic cells. QX77 treatment also increases LAMP2A localization at the lysosomal membrane.

Solubility Information

Solubility	DMSO: 15 mg/mL (49.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3251 mL	16.6257 mL	33.2513 mL
5 mM	0.665 mL	3.3251 mL	6.6503 mL
10 mM	0.3325 mL	1.6626 mL	3.3251 mL
50 mM	0.0665 mL	0.3325 mL	0.665 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zhang J, et al. Cystinosin, the small GTPase Rab11, and the Rab7 effector RILP regulate intracellular trafficking of the chaperone-mediated autophagy receptor LAMP2A. J Biol Chem. 2017 Jun 23;292(25):10328-10346

Liu C, Sun W, Zhu T, et al. Glia maturation factor-β induces ferroptosis by impairing chaperone-mediated autophagic degradation of ACSL4 in early diabetic retinopathy. Redox Biology. 2022: 102292.

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