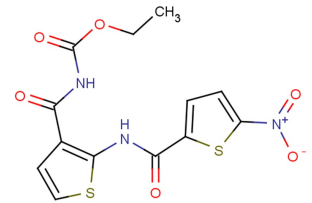


Data Sheet (Cat.No.T11142)

EACC

Chemical Properties

CAS No.:	864941-31-1
Formula:	C13H11N3O6S2
Molecular Weight:	369.37
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	EACC selectively inhibits the translocation of autophagosome-specific SNARE Stx17 thereby blocking autophagosome-lysosome fusion. EACC is a reversible autophagy inhibitor, which can block autophagic flux.
Targets(IC ₅₀)	Autophagy: None
In vitro	EACC inhibits autophagy by preventing SNARE Stx17 loading on autophagosomes. EACC does not affect RABs, tethers, and lysosomal SNARE but prevents their interaction with LC3 and Stx17. EACC blocks autophagosome-lysosome fusion but does not affect endo-lysosomal function.

Solubility Information

Solubility	DMSO: 16.88 mg/mL (45.70 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.707 mL	13.537 mL	27.073 mL
5 mM	0.541 mL	2.707 mL	5.415 mL
10 mM	0.271 mL	1.354 mL	2.707 mL
50 mM	0.054 mL	0.271 mL	0.541 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Vats S, et al. A reversible autophagy inhibitor blocks autophagosome-lysosome fusion by preventing Stx17 loading onto autophagosomes. *Mol Biol Cell*. 2019 Aug 1;30(17):2283-2295.

Inhibitors · Natural Compounds · Compound Libraries

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