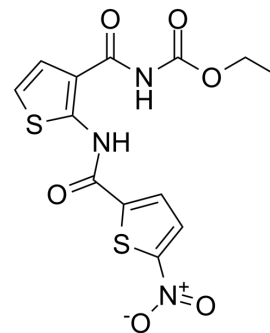


## EACC

<b>Cat. No.:</b>	HY-129111		
<b>CAS No.:</b>	864941-31-1		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>11</sub> N <sub>3</sub> O <sub>6</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	369.37		
<b>Target:</b>	Autophagy		
<b>Pathway:</b>	Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 16.88 mg/mL (45.70 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7073 mL	13.5366 mL	27.0731 mL
		5 mM	0.5415 mL	2.7073 mL	5.4146 mL
10 mM		0.2707 mL	1.3537 mL	2.7073 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.69 mg/mL (4.58 mM); Clear solution				

## BIOLOGICAL ACTIVITY

<b>Description</b>	EACC is a reversible autophagy inhibitor, which can block autophagic flux. EACC selectively inhibits the translocation of autophagosome-specific SNARE Stx17 thereby blocking autophagosome-lysosome fusion <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Autophagy <sup>[1]</sup>
<b>In Vitro</b>	EACC blocks autophagosome-lysosome fusion but does not affect endo-lysosomal function <sup>[1]</sup> . EACC inhibits autophagy by preventing SNARE Stx17 loading on autophagosomes <sup>[1]</sup> . EACC does not affect RABs, tethers, and lysosomal SNARE but prevents their interaction with LC3 and Stx17 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Cell Commun Signal. 2023 May 24;21(1):120.
- Eur J Pharmacol. 2023 Aug 30;957:176035.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA