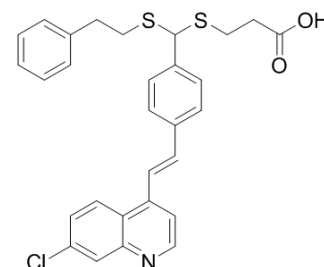


LV-320

Cat. No.:	HY-112711
Molecular Formula:	C ₂₉ H ₂₆ ClNO ₂ S ₂
Molecular Weight:	520.11
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the COA.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 135 mg/mL (259.56 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9227 mL	9.6134 mL	19.2267 mL
	5 mM	0.3845 mL	1.9227 mL	3.8453 mL
	10 mM	0.1923 mL	0.9613 mL	1.9227 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
 Solubility: ≥ 2.25 mg/mL (4.33 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
 Solubility: ≥ 2.25 mg/mL (4.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LV-320 is a potent ATG4B inhibitor with an IC₅₀ of 24.5 μM.

IC₅₀ & Target

IC₅₀: 24.5 μM (ATG4B)^[1]

REFERENCES

[1]. Bosc D, et al. A new quinoline-based chemical probe inhibits the autophagy-related cysteine protease ATG4B. Sci Rep. 2018 Aug 3;8(1):11653. doi: 10.1038/s41598-018-29900-x.

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

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