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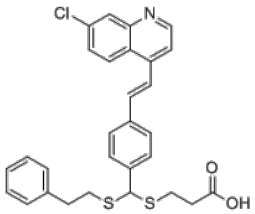
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	LV-320
Cat. No.	:	PC-35540
CAS No.	:	2449093-46-1
Molecular Formula	:	$C_{29}H_{26}ClNO_2S_2$
Molecular Weight	:	520.102
Target	:	Autophagy-related Protein (Atg)
Solubility	:	10 mM in DMSO



CAS: 2449093-46-1

Biological Activity

LV-320 (LV320) is a novel potent, cell-active, allosteric inhibitor of the autophagy-related cysteine protease **ATG4B** with IC50 of 24.5 uM in ATG4B cleavage assay.
LV-320 binds to ATG4B and is an uncompetitive inhibitor of ATG4B with Kd of 16 uM.
LV-320 blocks starvation-induced autophagic fux in vitro; also inhibit ATG4A with an IC50 of 35.5 uM, but does not shows meaningful inhibition for caspase-3 or cathepsin B.
LV-320 reduces autophagic fux in vitro and is bioavailable and active in vivo.
LV-320 is a relevant chemical tool to study the various roles of ATG4B in cancer and other contexts.

References

Bosc D, et al. ***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. Lab Use Only!

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