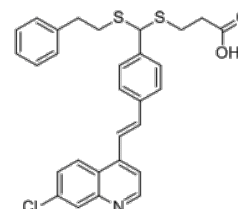


Product Name : LV-320
Cat. No. : PC-35540
CAS No. : 2449093-46-1
Molecular Formula : C₂₉H₂₆ClNO₂S₂
Molecular Weight : 520.102
Target : Autophagy-related Protein (Atg)
Solubility : 10 mM in DMSO



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 K_d of 16 uM.

LV-320 blocks starvation-induced autophagic flux 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 flux 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!

E-mail: tech@probechem.com