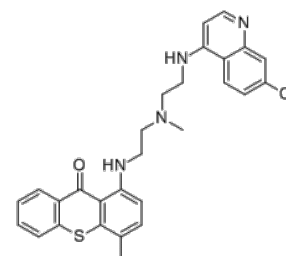


Product Name : ROC-325
Cat. No. : PC-60599
CAS No. : 1859141-26-6
Molecular Formula : C₂₈H₂₇ClN₄OS
Molecular Weight : 503.061
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

ROC-325 (ROC 325, ROC325) is a novel, orally available inhibitor of lysosomal-mediated **autophagy**.

ROC-325 exhibits superior in vitro anticancer effects compared with the existing autophagy inhibitor hydroxychloroquine (HCQ) in different cancer cell lines, including accumulation of autophagosomes with undegraded cargo, lysosomal deacidification, p62 stabilization, and disruption of autophagic flux.

ROC-325 antagonizes RCC growth and survival in an ATG5/7-dependent manner, induces apoptosis and exhibited favorable selectivity.

ROC-325 significantly more effective at inhibiting tumor progression than HCQ, and inhibited autophagy in vivo.

References

Carew JS, et al. *Clin Cancer Res*. 2017 Jun 1;23(11):2869-2879.

Carew JS, et al. *Autophagy*. 2017 Apr 3;13(4):765-766.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com