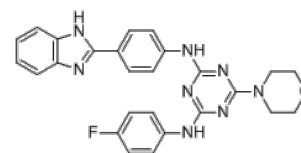


Product Name : IITZ-01
Cat. No. : PC-35636
CAS No. : 1807988-47-1
Molecular Formula : C₂₆H₂₃FN₈O
Molecular Weight : 482.523
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

IITZ-01 (Autophagy inhibitor IITZ-01) is a potent lysosomotropic **autophagy** inhibitor, exhibits >10-fold potent autophagy inhibition along with 12- to 20-fold better cytotoxic action than Chloroquine.

IITZ-01 enhances autophagosome accumulation but inhibit autophagosomal degradation by impairing lysosomal function, finally resulting in the inhibition of autophagy.

IITZ-01 also abolishes mitochondrial membrane potential and triggers apoptosis through the mitochondria-mediated pathway (TNBC cells IC₅₀=1.54 uM, 48 h).

IITZ-01 displays potent antitumor action in vivo through autophagy inhibition and apoptosis induction in MDA-MB-231 breast cancer xenograft model.

References

Guntuku L, et al. *Oncogene*. 2018 Aug 30. doi: 10.1038/s41388-018-0446-2.

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

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