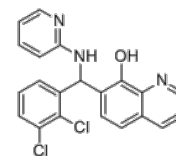


Product Name : MMRI62
Cat. No. : PC-72830
CAS No. : 352693-80-2
Molecular Formula : C₂₁H₁₅Cl₂N₃O
Molecular Weight : 396.271
Target : Ferroptosis
Solubility : 10 mM in DMSO



Biological Activity

MMRI62 is a small molecule **ferroptosis** inducer and **DM2-MDM4**-targeting chemical with p53-independent pro-apoptotic activity.

MMRI62 inhibits proliferation, clonogenic and spheroid growth of PDAC cells by induction of cell death (IC₅₀=0.59-1.69 uM).

MMRI62-induced cell death in PDAC is characteristic of ferroptosis which is associated with increased autophagy, increased reactive oxygen species and lysosomal degradation of NCOA4 and Ferritin Heavy Chain (FTH1).

MMRI62 also induces proteasomal degradation of mutant p53.

MMRI62-induced ferroptosis occurs in PDAC cell lines harboring either KRAS and TP53 double mutations or single TP53 mutation.

MMRI62 inhibited tumor growth in mice associated with downregulation of NCOA4 and mutant p53 in orthotopic xenograft PDAC mouse models.

References

Junhui Li, et al. *Mol Cancer Ther.* 2022 Feb 7;molcanther.0728.2021.

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

E-mail: tech@probechem.com