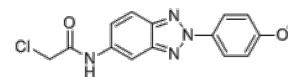


Product Name : HG106
Cat. No. : PC-73129
CAS No. : 928712-10-1
Molecular Formula : C₁₅H₁₃ClN₄O₂
Molecular Weight : 316.745
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

HG106 (HG 106) is a potent, selective **SLC7A11** inhibitor, selectively kills KRAS-mutant lung adenocarcinoma (LUAD) cells. HG106 exerts substantial cytotoxic effects on KRAS-mutant H441 cells, which are strikingly reduced by addition of β-mercaptoethanol and L-cysteine.

HG106 preferentially decreases the viability of KRAS-mutant LUAD cells (A549 cells IC₅₀=3.7 μM), dose-dependently reduces the oxygen consumption rate and disrupted MMP in A549 and H441 cells.

HG106 significantly induced apoptosis in KRAS-mutant LUAD cells and inhibited colony formation.

HG106 exhibits potent in vivo efficacy in a patient-derived xenograft (PDX) model of LUAD harboring a G12V mutation in KRAS.

References

Hu K, et al. *J Clin Invest*. 2020 Apr 1;130(4):1752-1766.

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

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