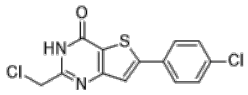
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	N6F11
Cat. No.	:	PC-28755
CAS No.	:	851398-76-0
Molecular Formula	:	$C_{13}H_8Cl_2N_2OS$
Molecular Weight	:	311.18
Target	:	Ferroptosis
Solubility	:	10 mM in DMSO



Biological Activity

N6F11 is a ferroptosis inducer and tumor-specificglutathione peroxidase 4 (**GPX4**) degrader, selectively induces ferroptosis by targeting TRIM25-mediated GPX4 degradation.
N6F11 does not cause the degradation of GPX4 in immune cells, including dendritic, T, natural killer, and neutrophil cells.
N6F11 binds the RING domain of E3 ubiquitin ligase tripartite motif containing 25 (TRIM25) in cancer cells to trigger TRIM25-mediated K48-linked ubiquitination of GPX4, resulting in its proteasomal degradation.
N6F11 treatment caused ferroptotic cancer cell death that initiated HMGB1-dependent antitumor immunity mediated by CD8+ T cells.
N6F11 also sensitized immune checkpoint blockade that targeted CD274/PD-L1 in advanced cancer models, including genetically engineered mouse models of pancreatic cancer driven by KRAS and TP53 mutations.

References

Li J, et al. ***Sci Transl Med***. 2023 Nov;15(720):eadg3049.

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

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