

L14-8

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	L14-8 is a potent inducer of ferroptosis and facilitates the degradation of PLK1 through ubiquitination, while enhancing TP53 phosphorylation and SAT1 transcription, leading to ferroptosis and the death of cancer cells. L14-8 is applicable in studies of advanced prostate cancer.
Targets(IC50)	Ferroptosis,PLK,MDM-2/p53
In vitro	L14-8 demonstrates significant cytotoxic effects, inducing over 80% cell death in C4-2B and 22Rv1 cells at concentrations of 5-25 μ M over 48 hours, while showing no remarkable impact on the growth of normal prostate cells at 25 μ M. Additionally, L14-8 at 10 μ M for 24-48 hours triggers ferroptosis in C4-2B and 22Rv1 cells by transcriptionally activating SAT1 expression, thereby increasing MDA levels. Furthermore, L14-8 concentrations ranging from 0-10 μ M over 0-24 hours activate SAT1 transcription in C4-2B and 22Rv1 cells through binding to PLK1 and enhancing PLK1-mediated TP53 phosphorylation and expression.
In vivo	When administered intraperitoneally at 10-20 mg/kg once daily for 25 days, L14-8 effectively suppresses prostate tumor growth in the C4-2B xenograft mouse model, while exhibiting no significant toxicity.

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