

KL4-219A

Chemical Properties

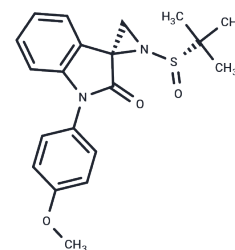
CAS No. :

Formula: C₂₀H₂₂N₂O₃S

Molecular Weight: 370.47

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	KL4-219A is a selective covalent degrader of the oncogenic transcription factor MYC, inhibiting MYC transcriptional activity and degrading MYC in a proteasome-dependent manner by targeting intrinsically disordered C203 and D205 residues.
Targets(IC50)	c-Myc
In vitro	KL4-219A potently inhibits HDAC11 in human cancer cell lines such as MDA-MB-231 and HCT116, with an IC ₅₀ of 4.5 nM. KL4-219A increases H3K9 acetylation levels and boosts IL-10 expression in vitro. KL4-219A also suppresses MYC expression in immune cells and modulates pathways related to inflammation and metabolism[1].
In vivo	In C57BL/6J mice, KL4-219A was administered intraperitoneally at 50 mg/kg daily for 14 days, resulting in marked downregulation of MYC and upregulation of IL-10 in tumor tissue. In a breast cancer xenograft model, KL4-219A significantly reduced tumor volume compared to vehicle controls, with no observed toxicity[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6993 mL	13.4964 mL	26.9927 mL
5 mM	0.5399 mL	2.6993 mL	5.3985 mL
10 mM	0.2699 mL	1.3496 mL	2.6993 mL
50 mM	0.054 mL	0.2699 mL	0.5399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rosen HT, et al. Sulfinyl Aziridines as Stereoselective Covalent Destabilizing Degraders of the Oncogenic Transcription Factor MYC. bioRxiv [Preprint]. 2025 Feb 27:2025.02.24.639755.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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