

WWL0245

Chemical Properties

CAS No. : 2869057-11-2

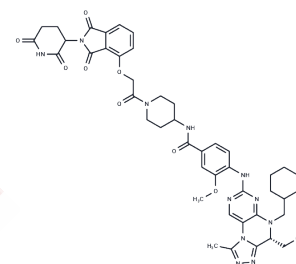
Formula: C₄₅H₅₁N₁₁O₈

Molecular Weight: 873.96

Keep away from direct sunlight

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	WWL0245 is a potent and selective BRD4-targeting PROTAC that exhibits sub-nanomolar degradation efficiency (DC ₅₀ 1 nM) for BRD4 over BRD2/3 and PLK1 (DC ₅₀ > 1 μM). It demonstrates pronounced selective cytotoxicity in BETi-sensitive cancer cell lines, particularly in AR-positive prostate cancer lines, making it a promising candidate for research in AR-positive prostate cancer and a valuable tool for the investigation of BRD4's biological function [1].
Targets(IC ₅₀)	Epigenetic Reader Domain
In vitro	WWL0245 (0-1 μM; 96h) inhibits the proliferation of AR-positive prostate cancer cells, with IC ₅₀ values between 0.0159 μM and 10 μM. At [1], it shows strong antiproliferative activity against VCaP, LNCaP, and 22Rv1 cell lines, with IC ₅₀ values of 0.016 μM, 0.021 μM, and 0.053 μM, respectively. WWL0245 (1 μM; 24h) induces time-dependent downregulation of BRD4 and c-Myc in LNCaP, 22Rv1, and VCaP cell lines, leading to a concentration-dependent decrease in BRD4 and c-Myc levels in 22Rv1 and VCaP cells. It also reduces BRD4 levels in DU145 cells, with negligible effect on c-Myc levels [1]. Furthermore, WWL0245 (100 nM-1 μM; 24h) suppresses the transcription of AR-regulated genes (PSA, TMPRSS2, ERG, FKBP5, BMPR1B) to varying degrees [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1442 mL	5.7211 mL	11.4422 mL
5 mM	0.2288 mL	1.1442 mL	2.2884 mL
10 mM	0.1144 mL	0.5721 mL	1.1442 mL
50 mM	0.0229 mL	0.1144 mL	0.2288 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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