

BI8622

Chemical Properties

CAS No. : 1875036-74-0

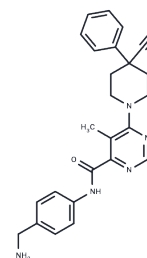
Formula: C₂₅H₂₆N₆O

Molecular Weight: 426.51

Storage: Keep away from direct sunlight, Store at low temperature

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	BI8622 is a ubiquitin ligase HUWE1-specific antagonist that restores the level of RP2 mutants in retinal cell lines and inhibits the activation of NLRP3, NLRC4, and AIM2 inflammatory vesicles in cells.
Targets(IC50)	E1/E2/E3 Enzyme,c-Myc,DNA/RNA Synthesis
In vitro	BI8622 is a specific inhibitor of HUWE1 ubiquitin ligase with an IC ₅₀ of 3.1 μM. It inhibited ubiquitination of MCL1 in HeLa cells by ectopic expression of HUWE1, with an IC ₅₀ value of 6.8 μM. In addition, BI8622 inhibited clonogenic formation of Ls174T cells with an estimated IC ₅₀ of 8.4 μM. BI8622 (10 μM, 1-4 days treatment) delayed the progression of Ls174T cells at all stages of the cell cycle, with the most pronounced inhibitory effect in the G1 phase. BI8622 (0-50 μM, 16 hours treatment) prevented the degradation of MCL1 in HeLa cells under UV irradiation by inhibiting HUWE1. It also inhibited MYC-dependent transcriptional activation in colorectal cancer cells. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (234.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.38 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3446 mL	11.7231 mL	23.4461 mL
5 mM	0.4689 mL	2.3446 mL	4.6892 mL
10 mM	0.2345 mL	1.1723 mL	2.3446 mL
50 mM	0.0469 mL	0.2345 mL	0.4689 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

Peter S, et al. Tumor cell-specific inhibition of MYC function using small molecule inhibitors of the HUWE1 ubiquitin ligase. EMBO Mol Med. 2014 Dec;6(12):1525-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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