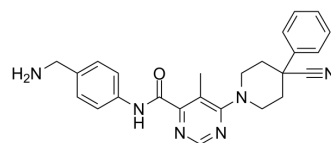


BI8622

Cat. No.:	HY-120929		
CAS No.:	1875036-74-0		
Molecular Formula:	C ₂₅ H ₂₆ N ₆ O		
Molecular Weight:	426.51		
Target:	E1/E2/E3 Enzyme		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (293.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	BI8622 is a specific inhibitor of the ubiquitin ligase HUWE1 with an IC ₅₀ of 3.1 μM ^[1] .
IC₅₀ & Target	IC ₅₀ : 3.1 μM (HUWE1) ^[1]
In Vitro	BI8622 induces HUWE1 ectopically expresses to abolish ubiquitination of MCL1 with an IC ₅₀ value of 6.8 μM in HeLa cells ^[1] . BI8622 suppresses colony formation of Ls174T cells with estimated IC ₅₀ value of 8.4 μM ^[1] . BI8622 (10 μM; 1-4 days) treatment retards passage of Ls174T cells through all phases of the cell cycle, with the effect being

strongest for G1^[1].

BI8622 (0-50 μ M; 16 hours) retards the degradation of MCL1 in response to UV irradiation by inhibiting HUWE1 in HeLa cells^[1].

BI8622 inhibits MYC-dependent transactivation in colorectal cancer cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cycle Analysis^[1]

Cell Line:	Ls174T cells
Concentration:	0 μ M, 5 μ M, 10 μ M, 15 μ M, 20 μ M
Incubation Time:	0-4 days
Result:	Retarded passage of Ls174T cells through all phases of the cell cycle, with the effect being strongest for G1.

Western Blot Analysis^[1]

Cell Line:	HeLa cells
Concentration:	0 μ M, 10 μ M, 20 μ M
Incubation Time:	16 hours
Result:	Retarded the degradation of MCL1 in response to UV irradiation by inhibiting HUWE1 in HeLa cells.

CUSTOMER VALIDATION

- J Clin Invest. 2020 Dec 1;130(12):6301-6316.
- Cell Death Differ. 2020 Dec;27(12):3273-3288.
- Exp Eye Res. 2022 May 13;220:109110.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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