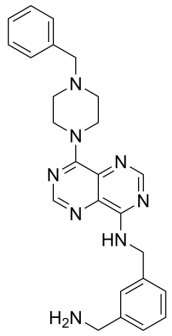
BI8626

Cat. No.:	HY-120204
CAS No.:	1875036-75-1
Molecular Formula:	$C_{25}H_{28}N_8$
Molecular Weight:	441
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (188.96 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2676 mL	11.3379 mL	22.6757 mL
	5 mM	0.4535 mL	2.2676 mL	4.5351 mL
	10 mM	0.2268 mL	1.1338 mL	2.2676 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.72 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BI8626 is a specific inhibitor of the ubiquitin ligase HUWE1 with an IC_{50} of 0.9 μM[1].

IC_{50} & Target

IC50: 0.9 μM (HUWE1)[1]

In Vitro

BI8626 induces HUWE1 ectopically expresses to abolishe ubiquitination of MCL1 in HeLa cells[1].
?BI8626 suppresses colony formation of Ls174T cells with estimated IC_{50} value of 0.7 μM, and BI8622 (1-4 days) treatment retards passage of Ls174T cells through all phases of the cell cycle, with the effect being strongest for G1[1].
?BI8626 (0-50 μM; 0-6 hours) retards the degradation of MCL1 in response to UV irradiation to the same extent as depletion of HUWE1 in U2OS 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 μM, 5 μM,10 μM, 15 μM, 20 μM
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:	U2OS cells
Concentration:	0 μM, 20 μM, 50 μM
Incubation Time:	0 hour,1 hour,2 hours,4 hours,6 hours
Result:	Retarded the degradation of MCL1 in response to UV irradiation in HeLa cells by inhibiting HUWE1 in U2OS cells.

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.

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