HBX 41108

Cat. No.: HY-101666

CAS No.: 924296-39-9

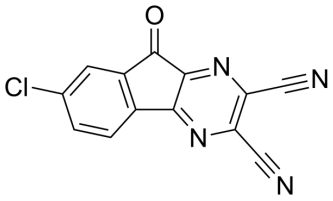
Molecular Formula: $C_{13}H_3ClN_4O$

Molecular Weight: 266.64

Target: Deubiquitinase; Apoptosis

Pathway: Cell Cycle/DNA Damage; Apoptosis

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (937.59 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7504 mL	18.7519 mL	37.5037 mL
	5 mM	0.7501 mL	3.7504 mL	7.5007 mL
	10 mM	0.3750 mL	1.8752 mL	3.7504 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: ≥ 1 mg/mL (3.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HBX 41108 is an uncompetitive inhibitor of ubiquitin-specific protease 7 (USP7) with an IC_{50} of 424 nM. HBX 41108 inhibits USP7-mediated p53 deubiquitination to stabilize p53 and inhibits cancer cell growth. HBX 41108 induces p53-dependent apoptosis in p53 wild type and null isogenic cancer cell lines[1][2].

REFERENCES

[1]. Colland F, et al. Small-molecule inhibitor of USP7/HAUSP ubiquitin protease stabilizes and activates p53 in cells. Mol Cancer Ther. 2009 Aug;8(8):2286-95.

[2]. Colombo M, et al. Synthesis and biological evaluation of 9-oxo-9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile analogues as potential inhibitors of deubiquitinating enzymes. ChemMedChem. 2010 Apr 6;5(4):552-8.

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

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