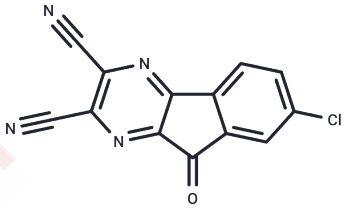
Data Sheet (Cat.No.T21527)

TargetMol

HBX 41108

Chemical Properties



CAS No. : 924296-39-9

Formula: C13H3ClN4O

Molecular Weight: 266.64

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	HBX 41108 (HBX-41108) is a non-competitive, reversible inhibitor of USP7 with an IC50 of 424nM. HBX 41108 inhibited deubiquitination of p53 mediated by USP7 in a dose-dependent manner with an IC50 of 0.8μM.
Targets(IC50)	Apoptosis,DUB,p53,MDM-2/p53

Solubility Information

Solubility	DMSO: 150 mg/mL (562.56 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: 1 mg/mL (3.75 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7504 mL	18.7519 mL	37.5038 mL
5 mM	0.7501 mL	3.7504 mL	7.5008 mL
10 mM	0.375 mL	1.8752 mL	3.7504 mL
50 mM	0.075 mL	0.375 mL	0.7501 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

Colland F, Formstecher E, Jacq X, et al. Small-molecule inhibitor of USP7/HAUSP ubiquitin protease stabilizes and activates p53 in cells. Mol Cancer Ther, 2009, 8(8): 2286-2295.

Lee KW, Cho JG, Kim CM, et al. Herpesvirus-associated Ubiquitin-specific Protease (HAUSP) Modulates Peroxisome Proliferator-activated Receptor γ (PPARγ) Stability through Its Deubiquitinating Activity. J Biol Chem, 2013, 288(46): 32886-32896.

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