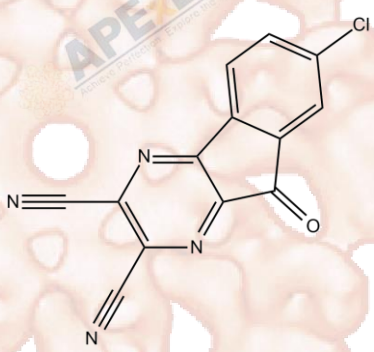
Product Data Sheet

HBX 41108



Cat. No.: B5550
CAS No.: 924296-39-9
Formula: C13H3ClN4O
M.Wt: 266.64
Synonyms:
Target: Ubiquitination/ Proteasome
Pathway: DUB
Storage: Store at -20°C

Solvent & Solubility

In Vitro

insoluble in H2O; ⩾1.83 mg/mL in EtOH with gentle warming and ultrasonic; ⩾13.35 mg/mL in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	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	0.3750 mL	1.8752 mL	3.7504 mL

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

Biological Activity

Shortsummary	ubiquitin-specific protease (USP) 7 inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	HCT116 colon cancer cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	24 h

	Applications:	In HCT116 colon cancer cells, treated with various doses of HBX 41,108 (1, 3, and 10 μmol/L) for 24 h increased p53 levels in a nongenotoxic manner. HBX 41,108 inhibited USP7 activity in HEK293 cells transfected with USP7. HBX 41,108 (0.1-10 μM, 24 h) inhibited HCT116 cancer cell growth and induced apoptotic cell death. HBX 41,108 induced p53-dependent apoptosis in p53 wild-type and null isogenic cancer cell lines. In COS7 cells, HBX 41108 inhibited PPARγ stability induced by USP7 and decreased the basal transcriptional activity of PPARγ by 70%。
In Vivo	**Animal experiment**	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. 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.

[2]. 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.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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