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USP7 Inhibitor – HBX41108

Chemical Name: (3E,5E)-1-acryloyl-3,5-bis(4-nitrobenzylidene)piperidin-4-one

Molecular Weight:	266.64
Molecular Weight.	200.04
Formula:	C ₁₃ H ₃ ClN ₄ O
Purity:	≥98%
CAS#:	924296-39-9
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year
	DMSO: 4 °C 3 months
	-20 °C 1 year

Biological Activity:

HBX41108 is a potent and selective ubiquitin-specific protease 7 (USP7) inhibitor with IC₅₀ \sim 424 nM. Kinetics data indicate it is an uncompetitive reversible inhibition mechanism. It inhibits USP7-mediated p53 deubiquitination (IC₅₀ \sim 0.8 μ M). It can also stabilize p53 and activate the transcription of a p53 target gene without inducing genotoxic stress. HBX41108 inhibits cancer cell growth, and induces p53-dependent apoptosis in p53 wild type and null isogenic cancer cell lines.

How to Use:

In vitro: HBX41108 was used at 10 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

- 1. Colland F, et al. Small-molecule inhibitor of USP7/HAUSP ubiquitin protease stabilizes and activates p53 in cells. (2009) Mol Cancer Ther. 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. (2010) ChemMedChem. 5(4):552-8.

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