

HB007

Chemical Properties

CAS No. : 2387821-46-5

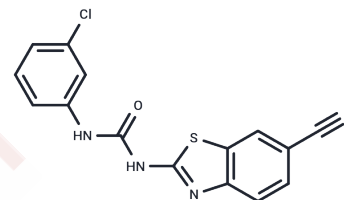
Formula: C₁₅H₉ClN₄O₅

Molecular Weight: 328.78

Store at low temperature

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	HB007 is an effective SUMO1 degradation agent that inhibits tumor growth by inducing SUMO1 ubiquitination and degradation, increasing endoplasmic reticulum (ER) stress and ROS production, suitable for cancer research.
Targets(IC50)	E1/E2/E3 Enzyme,ROS
In vitro	HB007 (compound 24) exhibited concentration-dependent inhibition of LN229 cell proliferation within the concentration range of 0.1-100 μ M [1]. HB007 (10-25 μ M) reduced the binding efficiency of SUMO1 and its total protein expression levels in LN229 cells, but showed no significant effect on the expression of SUMO2/3 or ubiquitin (UB) [1].
In vivo	HB007 (25-50 mg/kg) was administered to mice via intraperitoneal injection for 15 consecutive days, which significantly inhibited tumor growth in carcinoma of the colon and lung cancer without an obvious impact on the body weight of mice [1].

Solubility Information

Solubility	DMSO: 24 mg/mL (73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0415 mL	15.2077 mL	30.4155 mL
5 mM	0.6083 mL	3.0415 mL	6.0831 mL
10 mM	0.3042 mL	1.5208 mL	3.0415 mL
50 mM	0.0608 mL	0.3042 mL	0.6083 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

Bellail AC, et, al. Ubiquitination and degradation of SUMO1 by small-molecule degraders extends survival of mice with patient-derived tumors. *Sci Transl Med.* 2021 Oct 13;13(615):eabh1486.

BELLAIL A, et, al. Compositions and methods for treating cancer. WO2019217509A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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