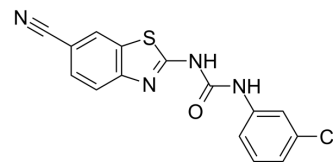


HB007

Cat. No.:	HY-139662		
CAS No.:	2387821-46-5		
Molecular Formula:	C ₁₅ H ₉ ClN ₄ OS		
Molecular Weight:	328.78		
Target:	E1/E2/E3 Enzyme		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 31.25 mg/mL (95.05 mM); ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (6.33 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	HB007 is a small ubiquitin-related modifier 1 (SUMO1) degrader. HB007 induces ubiquitination and degradation of SUMO1, resulting in reduced tumor growth in vivo. HB007 can be used for the research of brain, breast, colon, and lung cancers ^{[1][2]} .
IC ₅₀ & Target	SUMO1 ^[1]
In Vitro	HB007 (compound 24) (0.1-100 μM) inhibits LN229 cell growth in a concentration-dependent manner t ^[1] . HB007 (10-25 μM) reduces SUMO1 conjugation and total protein levels of SUMO1 but not SUMO2/3 or UB in LN229 cells t ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	HB007 (compound 24) (25-50 mg/kg; i.p. for 15 d) significantly suppresses tumor growth of colon and lung cancer but had no effect on the body weights of mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA