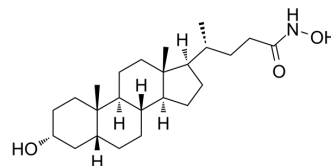


LCAHA

Cat. No.:	HY-120458		
CAS No.:	117094-40-3		
Molecular Formula:	C ₂₄ H ₄₁ NO ₃		
Molecular Weight:	391.59		
Target:	Deubiquitinase		
Pathway:	Cell Cycle/DNA Damage		
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 : 45 mg/mL (114.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5537 mL	12.7685 mL	25.5369 mL
		5 mM	0.5107 mL	2.5537 mL	5.1074 mL
10 mM		0.2554 mL	1.2768 mL	2.5537 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 (5.31 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.31 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	LCAHA (LCA hydroxyamide) is a deubiquitinase USP2a inhibitor with IC ₅₀ s of 9.7 μM and 3.7 μM in Ub-AMC Assay and Di-Ub Assay, respectively. LCAHA destabilizes Cyclin D1 and induces G0/G1 arrest by inhibiting deubiquitinase USP2a ^[1] .
In Vitro	<p>LCAHA inhibits HCT116^{wt} and HCT116 p53^{-/-} colon cancer cells viability with GI₅₀s of 0.87±0.09 and 0.96±0.29 μM, respectively, and the LD₅₀s of 27.8±3.9 and 26.5±0.1 μM, respectively^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <hr/> <p>Cell Line: HCT116^{wt} and HCT116 p53^{-/-} colon cancer cells</p>

Concentration:	0.01, 0.1, 1, 10, and 100 μM
Incubation Time:	6 days
Result:	The GI_{50} s are 0.87 ± 0.09 and 0.96 ± 0.29 μM for HCT116 ^{wt} and HCT116 p53 ^{-/-} colon cancer cells, respectively.

REFERENCES

[1]. Katarzyna Magiera, et al. Lithocholic Acid Hydroxyamide Destabilizes Cyclin D1 and Induces G₀/G₁ Arrest by Inhibiting Deubiquitinase USP2a. Cell Chem Biol. 2017 Apr 20;24(4):458-470.e18.

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

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