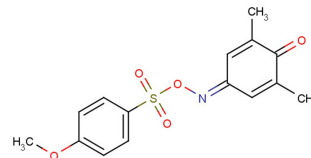


L002

Chemical Properties

CAS No.: 321695-57-2
Formula: C₁₅H₁₅NO₅S
Molecular Weight: 321.35
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	L002 binds the acetyl-CoA pocket and competitively inhibits the FATp300 catalytic domain, blocks histone acetylation and p53 acetylation, and inhibits STAT3 activation. L002 has the potential for hypertension-induced cardiac hypertrophy and fibrogenesis treatment. L002 is a potent, cell permeable, reversible and specific acetyltransferase p300 (KAT3B) inhibitor with an IC ₅₀ of 1.98 μM.
Targets(IC ₅₀)	KAT3B: 1.98 uM PCAF: 35 μM GCN5: 34 μM
In vitro	L002 also has weak inhibitory effects against PCAF and GCN5 (IC ₅₀ s =35 and 34 μM, respectively) and is specific for p300 over a panel of deacetylases, additional acetyltransferases, and methyltransferases.
In vivo	L002 reverses hypertension-induced cardiac hypertrophy and fibrosis by treatment of mice after inducing hypertension for two weeks significantly. It also reduces the levels of perivascular and interstitial collagen in the myocardium compared to non-treated hypertensive mice.

Solubility Information

Solubility	DMSO: 62.5 mg/mL (194.49 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.112 mL	15.559 mL	31.119 mL
5 mM	0.622 mL	3.112 mL	6.224 mL
10 mM	0.311 mL	1.556 mL	3.112 mL
50 mM	0.062 mL	0.311 mL	0.622 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Rai R, et al. A novel acetyltransferase p300 inhibitor ameliorates hypertension-associated cardio-renal fibrosis. Epigenetics. 2017;12(11):1004-1013.
2. Sun XJ, et al. The Role of Histone Acetyltransferases in Normal and Malignant Hematopoiesis. Front Oncol. 2015 May 26;5:108.
3. Rai R, et al. Acetyltransferase p300 inhibitor reverses hypertension-induced cardiac fibrosis. J Cell Mol Med. 2019 Apr;23(4):3026-3031.

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