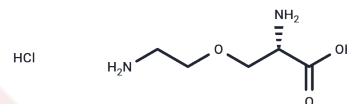


L-4-Oxalysine hydrochloride

Chemical Properties

CAS No. : 118021-35-5
 Formula: C₅H₁₃ClN₂O₃
 Molecular Weight: 184.62
 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	L-4-Oxalysine hydrochloride, a natural product isolated from the culture media of *Streptomyces roseovirdofuscus* in China, has demonstrated antitumor activities.
Targets(IC50)	Others,Antifungal
In vitro	L-4-Oxalysine counteracts the suppression of spleen lymphocyte proliferation and interleukin-6 production, induced by alpha-fetoprotein (AFP) and a one-way mixed lymphocyte culture in mice with the hepatoma-22 tumor. Additionally, in BEL-7404 human hepatoma cells, which express AFP, L-4-Oxalysine inhibits the expression of AFP mRNA.
In vivo	L-4-oxalysine effectively suppresses the growth of select mouse-implanted tumors and reduces the spread of pulmonary metastasis in mouse Lewis lung carcinoma. Administering varying doses of L-4-oxalysine (I-677) at 10, 50, and 100 mg/kg over a seven-day period to mice, the most pronounced ultrastructural impacts on hepatocytes were observed on the day following the cessation of treatment. Initial findings include the accumulation of lipid droplets in hepatocytes, which progresses to a reduction in cytoplasmic matrices. However, the total area occupied by lipid droplets does not exceed 25% of the average hepatocyte section area. Notably, damage to mitochondria and rough endoplasmic reticulum (RER) was exclusively observed in groups receiving medium and high doses of L-4-oxalysine.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4165 mL	27.0827 mL	54.1653 mL
5 mM	1.0833 mL	5.4165 mL	10.8331 mL
10 mM	0.5417 mL	2.7083 mL	5.4165 mL
50 mM	0.1083 mL	0.5417 mL	1.0833 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

Dai ZQ, et al. Effect of L-4-oxalysine on ultrastructures of liver cells in mice. *Zhongguo Yao Li Xue Bao*. 1991 Jul;12(4):336-40.

Wang XW, et al. Immunostimulatory action of L-4-oxalysine counteracts immunosuppression induced by alpha-fetoprotein. *Eur J Pharmacol*. 1998 Jun 12;351(1):105-11.

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