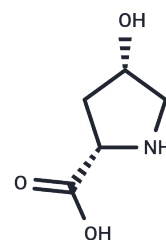


cis-4-Hydroxy-L-proline

Chemical Properties

CAS No. :	618-27-9
Formula:	C ₅ H ₉ NO ₃
Molecular Weight:	131.13
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	cis-4-Hydroxy-L-proline is an inhibitor of the synthesis and extracellular deposition of collagen. cis-4-Hydroxy-L-proline could inhibit fibroblast growth by preventing the deposition of triple-helical collagen on the cell layer.
Targets(IC50)	Endogenous Metabolite
In vivo	cis-4-Hydroxy-L-proline depressed the growth of primary N-nitrosomethylurea-induced rat mammary tumors[4].

Solubility Information

Solubility	H ₂ O: 100 mg/mL (762.6 mM), Sonication is recommended. DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.626 mL	38.1301 mL	76.2602 mL
5 mM	1.5252 mL	7.626 mL	15.252 mL
10 mM	0.7626 mL	3.813 mL	7.626 mL
50 mM	0.1525 mL	0.7626 mL	1.5252 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

Kao WW, et, al. Proline analogue removes fibroblasts from cultured mixed cell populations. *Nature*. 1977 Mar 3; 266(5597):63-4.

Tan EM, et, al. Proline analogues inhibit human skin fibroblast growth and collagen production in culture. *J Invest Dermatol*. 1983 Apr;80(4):261-7.

Riley DJ, et, al. Prevention of bleomycin-induced pulmonary fibrosis in the hamster by cis-4-hydroxy-L-proline. *Am Rev Respir Dis*. 1981 Apr;123(4 Pt 1):388-93.

Lewko WM, et, al. Sensitivity of N-nitrosomethylurea-induced rat mammary tumors to cis-hydroxyproline, an inhibitor of collagen production. *Cancer Res*. 1981 Jul;41(7):2855-62.

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