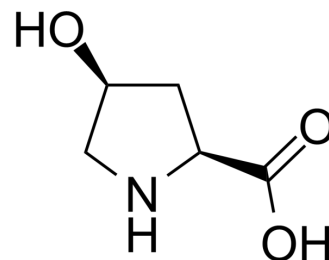


cis-4-Hydroxy-L-proline

Cat. No.:	HY-40136		
CAS No.:	618-27-9		
Molecular Formula:	C ₅ H ₉ NO ₃		
Molecular Weight:	131.13		
Target:	Endogenous Metabolite		
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

H₂O : 100 mg/mL (762.60 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.6260 mL	38.1301 mL	76.2602 mL
	5 mM	1.5252 mL	7.6260 mL	15.2520 mL
	10 mM	0.7626 mL	3.8130 mL	7.6260 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 100 mg/mL (762.60 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

cis-4-Hydroxy-L-proline, a proline analogue, is an inhibitor of collagen production. cis-4-Hydroxy-L-proline could inhibit fibroblast growth by preventing the deposition of triple-helical collagen on the cell layer. cis-4-Hydroxy-L-proline also depresses the growth of primary N-nitrosomethylurea-induced rat mammary tumors^{[1][2][3][4]}.

REFERENCES

[1]. 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.

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

[3]. 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.

[4]. 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.

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

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