L-Hydroxyproline

Cat. No.: HY-40135

CAS No.: 51-35-4

Molecular Formula: $C_5H_9NO_3$

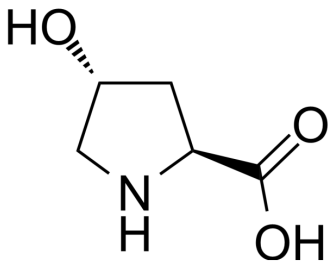
Molecular Weight: 131.13

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (381.30 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	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

L-Hydroxyproline, one of the hydroxyproline (Hyp) isomers, is a useful chiral building block in the production of many pharmaceuticals.

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

L-Hydroxyproline (Trans-4-hydroxy-L-proline;Trans-Hyp) has been widely used in medicine, biochemistry, food, cosmetic and other aspects of industry. Additionally, L-Hydroxyproline has also been found in the composition of some secondary metabolites such as actinomycins and echinocandins. L-Hydroxyproline is manufactured industrially most by acid hydrolysis of mammalian collagen because of its rich amount in the collagen[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yi Y, et al. Biosynthesis of trans-4-hydroxyproline by recombinant strains of Corynebacterium glutamicum and Escherichia coli. BMC Biotechnol. 2014 May 19;14:44.

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