

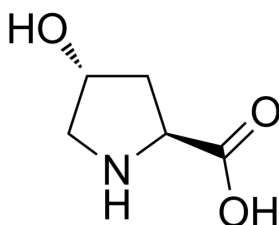
L-Hydroxyproline

Cat. No.: HY-40135
 CAS No.: 51-35-4
 Batch No.: 312444
 Chemical Name: L-Proline, 4-hydroxy-, (4R)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₅H₉NO₃
 Molecular Weight: 131.13
 Storage: Powder -20°C 3 years
 4°C 2 years
 In solvent -80°C 2 years
 -20°C 1 year

Chemical Structure:



ANALYTICAL DATA

	Specification	Result
Appearance:	White to off-white (Solid)	White (Powder)
Clarity And Color Of Solution:	Colorless	Colorless
Structure Identification(¹ H NMR Spectrum):	Conforms to Structure	Conforms to Structure
Specific Rotation, C = 1 in H ₂ O, 20 deg C:	-77.0 - -74.0 °C	-76.5
Solubility(Turbidity), 50 mg/mL, Water:	Clear	Clear
Residue on Ignition, %:	<0.1	0.05
Loss on Drying, %:	<0.5	0.1
Bacterial endotoxins, EU/mg:	<1	qualified
Arsenic(As), ppm:	≤1	qualified
Heavy Metals(as Pb), ppm:	≤10	qualified
Iron(Fe), ppm:	≤10	qualified
Sulfate(SO ₄), %:	≤0.03	0.02
Ammonium, %:	≤0.02	0.02
Chloride(Cl), %:	≤0.02	0.02

Conclusion: The product has been tested and complies with the given specifications.

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

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