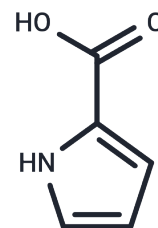


## Pyrrole-2-carboxylic acid

## Chemical Properties

CAS No. :	634-97-9
Formula:	C <sub>5</sub> H <sub>5</sub> NO <sub>2</sub>
Molecular Weight:	111.1
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Pyrrole-2-carboxylic acid (Minaline) was first identified as a degradation product of sialic acids, then as a derivative of the oxidation of the D-hydroxyproline isomers by mammalian D-amino acid oxidase. The latter relationship results from the lability of the direct oxidation product, A'-pyrroline-4-hydroxy-2-carboxylic acid, which loses water spontaneously to form the pyrrole. A similar reaction is catalyzed by the more specific aldehydoxy-D-proline oxidase of Pseudomonas. In whole animal observations, pyrrole-2-carboxylate (PCA) ' was identified in rat or human urine after administration of the D-isomers of hydroxyproline, a finding ascribable to the action of D-amino acid oxidase. Urinary excretion of N-(pyrrole-2-carboxyl) glycine has been reported in a 5-year-old affected with type II hyperprolinemia; The child has mild developmental delay, recurrent seizures of the grand mal type and EEG alterations.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (202.52 mM), Sonication is recommended. Methanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.0009 mL	45.0045 mL	90.009 mL
5 mM	1.8002 mL	9.0009 mL	18.0018 mL
10 mM	0.9001 mL	4.5005 mL	9.0009 mL
50 mM	0.180 mL	0.9001 mL	1.8002 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.

Reference

He XX, et al. Pelopuradazole, a new imidazole derivative alkaloid from the marine bacteria *Pelomonas puraquae* sp. nov. *Nat Prod Res.* 2014;28(9):680-2.

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