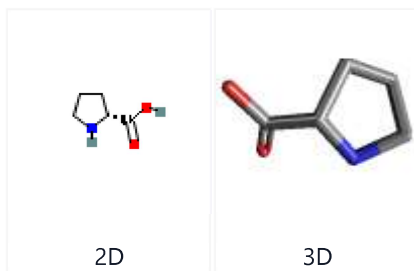


COMPOUND SUMMARY

D-proline

PubChem CID 8988**Structure****Chemical Safety**

Irritant

[Laboratory Chemical Safety Summary \(LCSS\) Datasheet](#)**Molecular Formula** C₅H₉NO₂**Synonyms**D-proline
344-25-2
(R)-pyrrolidine-2-carboxylic acid
(2R)-pyrrolidine-2-carboxylic acid
H-D-Pro-OH[View More...](#)**Molecular Weight** 115.13 g/mol*Computed by PubChem 2.2 (PubChem release 2021.10.14)***Dates**

Create: 2004-09-16 Modify: 2024-03-30

DescriptionD-proline is the D-enantiomer of [proline](#). It has a role as a mouse metabolite. It is a D-alpha-amino acid and a [proline](#). It is a conjugate

base of a [D-prolinium](#). It is a conjugate acid of a [D-prolinate](#). It is an enantiomer of a [L-proline](#). It is a tautomer of a D-proline zwitterion.

▶ [ChEBI](#)

D-proline is an isomer of the naturally occurring amino acid, [L-Proline](#). D-amino acids have been found in relatively high abundance in human plasma and saliva. These amino acids may be of bacterial origin, but there is also evidence that they are endogenously produced through amino acid racemase activity.

▶ [DrugBank](#)

D-proline is a natural product found in [Antirrhinum majus](#), [Homo sapiens](#), and [other organisms](#) with data available.

▶ [LOTUS - the natural products occurrence database](#)

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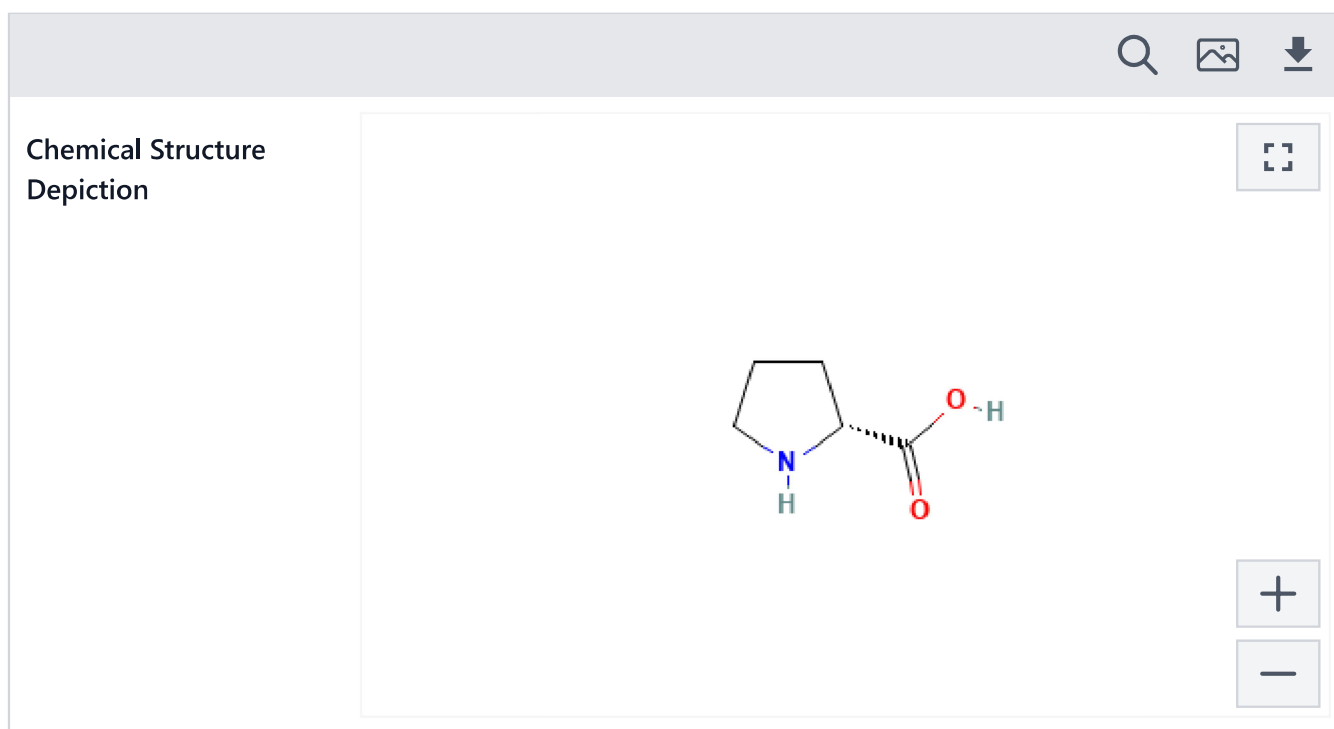
13 Patents



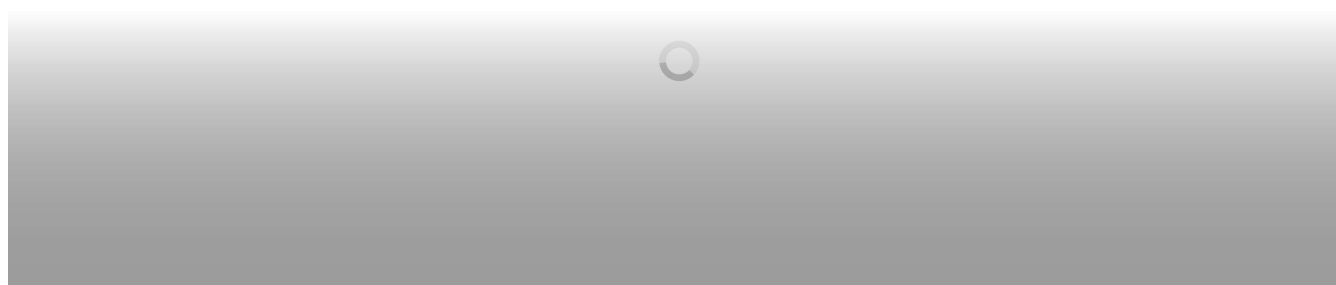
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1 Structures ? [↗](#)

1.1 2D Structure ? [↗](#)

[▶ PubChem](#)

1.2 3D Conformer ? [↗](#)



[▶ PubChem](#)

2 Biologic Description



SVG Image



IUPAC Condensed	H-D-Pro-OH
-----------------	------------

Sequence	P
----------	---

PLN	H-{d}P-OH
-----	-----------

HELM	PEPTIDE1{[dP]}\$\$\$\$
------	------------------------

IUPAC	D-proline
-------	-----------

[▶ PubChem](#)

3 Names and Identifiers



3.1 Computed Descriptors



3.1.1 IUPAC Name



(2R)-pyrrolidine-2-carboxylic acid

Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)

▶ [PubChem](#)

3.1.2 InChI



InChI=1S/C5H9NO2/c7-5(8)4-2-1-3-6-4/h4,6H,1-3H2,(H,7,8)/t4-/m1/s1

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

▶ [PubChem](#)

3.1.3 InChIKey



ONIBWKKTOPOVIA-SCSAIBSYSAN

Computed by InChI 1.0.6 (PubChem release 2021.10.14)

▶ [PubChem](#)

3.1.4 Canonical SMILES



C1CC(NC1)C(=O)O

Computed by OEChem 2.3.0 (PubChem release 2021.10.14)

▶ [PubChem](#)

3.1.5 Isomeric SMILES



C1C[C@@H](NC1)C(=O)O

Computed by OEChem 2.3.0 (PubChem release 2021.10.14)

▶ [PubChem](#)