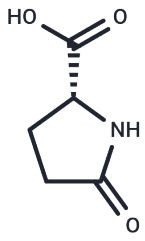
Data Sheet (Cat.No.T4814)

TargetMol
YOUR TARGET MOLECULES

(R)-5-Oxopyrrolidine-2-carboxylic acid

Chemical Properties



CAS No. : 4042-36-8

Formula: C5H7NO3

Molecular Weight: 129.11

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(R)-5-Oxopyrrolidine-2-carboxylic acid (D-Pyroglutamic acid) is a cyclic derivative of glutamic acid, physiologically present in mammalian tissues. It has been shown that PCA releases GABA from the cerebral cortex and displays anti-anxiety effects in a simple approach-avoidance conflict situation in the rat. In clinical pharmacology experiments, PCA significantly shortens the plasma half-life of ethanol during acute intoxication.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (425.99 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.7453 mL	38.7267 mL	77.4533 mL
5 mM	1.5491 mL	7.7453 mL	15.4907 mL
10 mM	0.7745 mL	3.8727 mL	7.7453 mL
50 mM	0.1549 mL	0.7745 mL	1.5491 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

Palekar AG, et al. Accumulation of 50xo-L-proline and 5-oxo-D-proline in the blood plasma in end stage renal disease. Biochem Med. 1975 Nov;14(3):339-45.

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