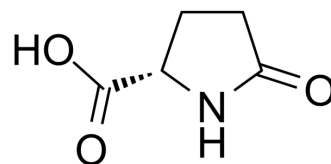


L-Pyroglutamic acid

Cat. No.:	HY-76082	
CAS No.:	98-79-3	
Molecular Formula:	C ₅ H ₇ NO ₃	
Molecular Weight:	129.11	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (774.53 mM; Need ultrasonic)
H₂O : 100 mg/mL (774.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 140 mg/mL (1084.35 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (19.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (19.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (19.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L-Pyroglutamic acid is the levo-isomer of Pyroglutamic acid. L-Pyroglutamic acid is the biologically active enantiomer in humans. Pyroglutamic acid is an intermediate in glutathione metabolism.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA