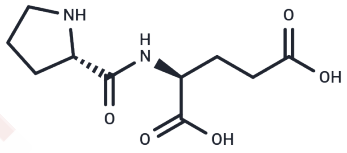
Data Sheet (Cat.No.T34139)

TargetMol

Prolylglutamic acid

Chemical Properties



CAS No. : 67644-00-2

Formula: C10H16N2O5

Molecular Weight: 244.24

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Prolylglutamic acid (H-Pro-Glu-OH) is a proline-glutamic acid dipeptide and endogenous metabolite capable of targeting the LipY lipase of pathogenic mycobacteria to the cell surface via the ESX-5 pathway.
Targets(IC50)	Amino Acids and Derivatives,Lipid,Lipase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0943 mL	20.4717 mL	40.9433 mL
5 mM	0.8189 mL	4.0943 mL	8.1887 mL
10 mM	0.4094 mL	2.0472 mL	4.0943 mL
50 mM	0.0819 mL	0.4094 mL	0.8189 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kim YO, et al. Purification, characterization, and gene cloning of glucose-1-phosphatase from Citrobacter braakii. J Gen Appl Microbiol. 2009 Oct;55(5):345-50.

Eggleston DS, Hodgson DJ. Conformation and crystal structure of L-prolyl-L-glutamic acid dihydrate. Int J Pept Protein Res. 1982 Jul;20(1):66-72.

Daleke MH, et al. Conserved Pro-Glu (PE) and Pro-Pro-Glu (PPE) protein domains target LipY lipases of pathogenic mycobacteria to the cell surface via the ESX-5 pathway. J Biol Chem. 2011 May 27;286(21):19024-34.

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