

Gly-Pro-pNA hydrochloride

Chemical Properties

CAS No. :	103213-34-9
Formula:	C ₁₃ H ₁₇ ClN ₄ O ₄
Molecular Weight:	328.75
Storage:	Store at low temperature,Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Gly-Pro-pNA hydrochloride (Gly-Pro p-nitroanilide hydrochloride) is a dipeptidyl peptidase inhibitor that inhibits dipeptidyl peptidase II, dipeptidyl peptidase IV and dipeptidyl peptidase IX.
Targets(IC50)	Proteasome

Solubility Information

Solubility	DMSO: 125 mg/mL (380.23 mM),Sonication is recommended. Ethanol: 30 mg/mL (91.25 mM),Sonication is recommended. DMF: 30 mg/mL (91.25 mM),Sonication is recommended. H ₂ O: 20 mg/mL (60.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0418 mL	15.2091 mL	30.4183 mL
5 mM	0.6084 mL	3.0418 mL	6.0837 mL
10 mM	0.3042 mL	1.5209 mL	3.0418 mL
50 mM	0.0608 mL	0.3042 mL	0.6084 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

Rai C, et al. Whey protein hydrolysates improve high-fat-diet-induced obesity by modulating the brain-peripheral axis of GLP-1 through inhibition of DPP-4 function in mice. Eur J Nutr. 2023 Sep;62(6):2489-2507.

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