Data Sheet (Cat.No.T4839)

TargetMol

Ac-Ala-OH

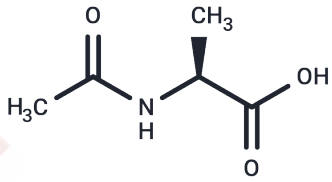
Chemical Properties

CAS No. : 97-69-8

Formula: C5H9NO3

Molecular Weight: 131.13

Storage: 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	Ac-Ala-OH (N-Acetyl-L-alanine) is a substrate for Guanine nucleotide-binding protein G (I)/G(S)/G(O) gamma-2 subunit, Myelin basic protein, GTP-binding nuclear protein Ran, Tropomyosin alpha 4 chain, HIV-1 Rev binding protein 2, Xaa-Pro dipeptidase, Thymosin beta-10, Actin-like protein 3, Alanine aminotransferase, Serine/threonine protein Phosphatase PP1-beta catalytic subunit,10 kDa heat shock protein (mitochondrial), Calmodulin and Beta-1-syntrophin.
Targets(IC50)	Endogenous Metabolite,Serine Protease

Solubility Information

Solubility	H2O: 245 mg/mL (1868.37 mM),Sonication is recommended. Ethanol: 74.29 mg/mL (566.54 mM),Sonication is recommended. DMSO: 255 mg/mL (1944.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (15.25 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (76.26 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.626 mL	38.1301 mL	76.2602 mL
5 mM	1.5252 mL	7.626 mL	15.252 mL
10 mM	0.7626 mL	3.813 mL	7.626 mL
50 mM	0.1525 mL	0.7626 mL	1.5252 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

Jansen R , Lachatre G , Marquet P . LC-MS/MS systematic toxicological analysis: comparison of MS/MS spectra obtained with different instruments and settings.[J]. Clinical Biochemistry, 2005, 38(4):362-372.