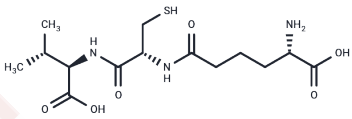
Data Sheet (Cat.No.TP2366)

TargetMol

Acv tripeptide

Chemical Properties



CAS No. : 32467-88-2

Formula: C14H25N3O6S

Molecular Weight: 363.43

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	Acv tripeptide is a crucial precursor in penicillin and cephalosporin biosyntheses.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7516 mL	13.7578 mL	27.5156 mL
5 mM	0.5503 mL	2.7516 mL	5.5031 mL
10 mM	0.2752 mL	1.3758 mL	2.7516 mL
50 mM	0.055 mL	0.2752 mL	0.5503 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

McNeill LA, Brown TJN, Sami M, Clifton IJ, Burzlaff NI, Claridge TDW, Adlington RM, Baldwin JE, Rutledge PJ, Schofield CJ. Terminally Truncated Isopenicillin N Synthase Generates a Dithioester Product: Evidence for a Thioaldehyde Intermediate during Catalysis and a New Mode of Reaction for Non-Heme Iron Oxidases. Chemistry. 2017 Sep 18;23(52):12815-12824. doi: 10.1002/chem.201701592. Epub 2017 Aug 21. PubMed PMID: 28703303; PubMed Central PMCID: PMC5637899.

Tahlan K, Moore MA, Jensen SE. δ-(L-α-aminoadipyl)-L-cysteinyl-D-valine synthetase (ACVS): discovery and perspectives. J Ind Microbiol Biotechnol. 2017 May;44(4-5):517-524. doi: 10.1007/s10295-016-1850-7. Epub 2016 Oct 20. Review. PubMed PMID: 27766439.

Tamanaha E, Zhang B, Guo Y, Chang WC, Barr EW, Xing G, St Clair J, Ye S, Neese F, Bollinger JM Jr, Krebs C. Spectroscopic Evidence for the Two C-H-Cleaving Intermediates of Aspergillus nidulans Isopenicillin N Synthase. J Am Chem Soc. 2016 Jul 20;138(28):8862-74. doi: 10.1021/jacs.6b04065. Epub 2016 Jul 5. PubMed PMID: 27193226; PubMed Central PMCID: PMC4956533.

Diez-Torrubia A, Cabrera S, de Castro S, García-Aparicio C, Mulder G, De Meester I, Camarasa MJ, Balzarini J, Velázquez S. Novel water-soluble prodrugs of acyclovir cleavable by the dipeptidyl-peptidase IV (DPP IV/CD26) enzyme. Eur J Med Chem. 2013;70:456-68. doi: 10.1016/j.ejmech.2013.10.001. Epub 2013 Oct 9. PubMed PMID: 24185376.