

(R)- β -lysine

Chemical Properties

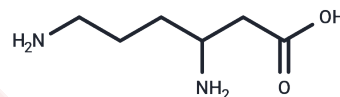
CAS No. : 4299-56-3

Formula: C₆H₁₄N₂O₂

Molecular Weight: 146.19

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	(R) - β - lysine is a functional modifier of elongation factor P (EF-P).
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.8404 mL	34.2021 mL	68.4041 mL
5 mM	1.3681 mL	6.8404 mL	13.6808 mL
10 mM	0.684 mL	3.4202 mL	6.8404 mL
50 mM	0.1368 mL	0.684 mL	1.3681 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

Katz A, Solden L, Zou SB, Navarre WW, Ibba M. Molecular evolution of protein-RNA mimicry as a mechanism for translational control. *Nucleic Acids Res.* 2014 Mar;42(5):3261-71. doi: 10.1093/nar/gkt1296. Epub 2013 Dec 13. PubMed PMID: 24335280; PubMed Central PMCID: PMC3950694.

Frey PA. Travels with carbon-centered radicals. 5'-deoxyadenosine and 5'-deoxyadenosine-5'-yl in radical enzymology. *Acc Chem Res.* 2014 Feb 18;47(2):540-9. doi: 10.1021/ar400194k. Epub 2013 Dec 5. PubMed PMID: 24308628.

Bullwinkle TJ, Zou SB, Rajkovic A, Hersch SJ, Elgamal S, Robinson N, Smil D, Bolshan Y, Navarre WW, Ibba M. (R)- β -lysine-modified elongation factor P functions in translation elongation. *J Biol Chem.* 2013 Feb 8;288(6):4416-23. doi: 10.1074/jbc.M112.438879. Epub 2012 Dec 31. PubMed PMID: 23277358; PubMed Central PMCID: PMC3567691.

Gilreath MS, Roy H, Bullwinkle TJ, Katz A, Navarre WW, Ibba M. β -Lysine discrimination by lysyl-tRNA synthetase. *FEBS Lett.* 2011 Oct 20;585(20):3284-8. doi: 10.1016/j.febslet.2011.09.008. Epub 2011 Sep 12. PubMed PMID: 21925499; PubMed Central PMCID: PMC3196068.

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