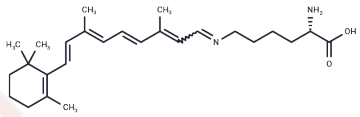
Data Sheet (Cat.No.T33562)

TargetMol

N6-(Retinylidene)lysine

Chemical Properties



CAS No. : 34372-62-8

Formula: C26H40N2O2

Molecular Weight: 412.61

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	N6-(Retinylidene)lysine is a protein.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4236 mL	12.118 mL	24.236 mL
5 mM	0.4847 mL	2.4236 mL	4.8472 mL
10 mM	0.2424 mL	1.2118 mL	2.4236 mL
50 mM	0.0485 mL	0.2424 mL	0.4847 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

Devine EL, Oprian DD, Theobald DL. Relocating the active-site lysine in rhodopsin and implications for evolution of retinylidene proteins. Proc Natl Acad Sci U S A. 2013 Aug 13;110(33):13351-5. doi: 10.1073/pnas.1306826110. Epub 2013 Jul 31. PubMed PMID: 23904486; PubMed Central PMCID: PMC3746867.

Li H, Govorunova EG, Sineshchekov OA, Spudich JL. Role of a helix B lysine residue in the photoactive site in channelrhodopsins. Biophys J. 2014 Apr 15;106(8):1607-17. doi: 10.1016/j.bpj.2014.03.002. PubMed PMID: 24739160; PubMed Central PMCID: PMC4008836.

Sonar SM, Singh AK. Location of lysine-129 and lysine-40/41 with respect to retinylidene chromophore in bacteriorhodopsin. Biochim Biophys Acta. 1991 Jan 29;1076(2):239-44. PubMed PMID: 1900199.

Eilers M, Reeves PJ, Ying W, Khorana HG, Smith SO. Magic angle spinning NMR of the protonated retinylidene Schiff base nitrogen in rhodopsin: expression of 15N-lysine- and 13C-glycine-labeled opsin in a stable cell line. Proc Natl Acad Sci U S A. 1999 Jan 19;96(2):487-92. PubMed PMID: 9892660; PubMed Central PMCID: PMC15163.

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