

DTT [3483-12-3]

#NB-64-29793-500mg

Size: 500mg

Chemical Properties

Cas No: 3483-12-3

Formula: C₄H₁₀O₂S₂

Molecular weight: 154.25

Appearance: no data available

store under nitrogen

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	DTT (DL-Dithiothreitol) is a reagent for maintaining SH groups in the reduced state.
Targets(IC₅₀)	Others

Solubility Information

Solubility	H ₂ O: 200 mg/mL (1296.60 mM), DMSO: 45 mg/mL (291.73 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	6.483 mL	32.4149 mL	64.8298 mL
5 mM	1.2966 mL	6.483 mL	12.966 mL
10 mM	0.6483 mL	3.2415 mL	6.483 mL
50 mM	0.1297 mL	0.6483 mL	1.2966 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

Reference

Sears DW, et al. Relative susceptibilities of the interchain disulfides of an immunoglobulin G molecule to reduction by dithiothreitol. *Biochemistry*. 1977 May 3;16(9):2031-5.

Wang J K, Li Y, Zhao X L, et al. Ablation of Plasma Prekallikrein Decreases LDL Cholesterol by Stabilizing LDL Receptor and Protects against Atherosclerosis. *Circulation*. 2022;145:675–687

Wang J K, Li Y, Zhao X L, et al. Ablation of Plasma Prekallikrein Decreases LDL Cholesterol by Stabilizing LDL Receptor and Protects Against Atherosclerosis. *Circulation*. 2022

Ding Y, Chen Q B, Xu H, et al. siRNA nanoparticle targeting Usp20 lowers lipid levels and ameliorates metabolic syndrome in mice. *Journal of Lipid Research*. 2024: 100626.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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