

Glutaraldehyde solution

Chemical Properties

CAS No. : 111-30-8

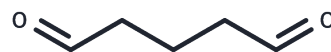
Formula: C₅H₈O₂

Molecular Weight: 100.12

Keep away from direct sunlight

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	Glutaraldehyde solution, 50% in H ₂ O, is a solution consisting of 50% glutaraldehyde in water, often employed for cell fixation in staining experiments. Glutaraldehyde forms covalent bonds with nucleophilic groups such as amino and thiol groups in proteins, leading to irreversible cross-linking of intracellular proteins and effectively fixing cells. Glutaraldehyde stabilizes cell morphology and structure, facilitating subsequent observation and research. Additionally, glutaraldehyde solution can serve as a sterilizing agent, food processing aid, disinfectant, tanning agent, and wood preservative.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.988 mL	49.9401 mL	99.8801 mL
5 mM	1.9976 mL	9.988 mL	19.976 mL
10 mM	0.9988 mL	4.994 mL	9.988 mL
50 mM	0.1998 mL	0.9988 mL	1.9976 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

Migneault I, et al. Glutaraldehyde: behavior in aqueous solution, reaction with proteins, and application to enzyme crosslinking. *Biotechniques*. 2004 Nov;37(5):790-6, 798-802.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481