

1-Thioglycerol Solution (1 M)

Cat. No. : PB180613

Size : 1mL

General Information

Product Form	Liquid
Solvent	Ultrapure water
Concentration	1 mol/L
Storage	2-8°C [®]
Whether to avoid light	Shading light
Shipping	Ice bag
Expiration date	12 months

Background

1-Thioglycerol is a reducing agent that is frequently employed in biochemical experiments, with a particular emphasis on molecular biology and protein chemistry. It is capable of effectively safeguarding proteins from oxidative damage and denaturation, as well as converting disulfide bonds in proteins to thiol groups for subsequent modification or analysis.

1-Thioglycerol is frequently employed in the culture medium of embryonic cortical and hippocampal neurons, mouse bone marrow mast cells, and human B cell lines to promote cell proliferation in cell culture studies. In addition, in organoid culture, 1-Thioglycerol not only promotes cell growth and proliferation but also protects cells from oxidative stress and extends the survival of organoids during organoid culture.

Notes

1. This product was sterilized by 0.1 µm filtration and can be used directly after melting.
2. It is necessary to pay attention to the aseptic operation and avoid the contamination.
3. If there is precipitate when you take it out, the contents can be resuspended by pipetting or vortex mixing. After incubating the solution at 37°C for 20 to 30 minutes or letting it stand at room temperature for about an hour, check to see if the precipitate dissolves as intended. If the product dissolves completely, it can be used as usual.
4. This product is a concentrated solution and should be diluted prior to use as required.
5. Normally stored at 2-8°C, it is recommended to use up within one month after opening.
6. This product is for research use only.
7. Harmful if swallowed, toxic in contact with skin or by inhalation, irritates skin, may cause allergic skin reactions, harmful to aquatic organisms, take appropriate precautions when handling.