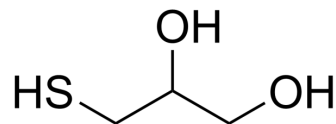


## 1-Thioglycerol

Cat. No.:	HY-W010572
CAS No.:	96-27-5
Molecular Formula:	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> S
Molecular Weight:	108.16
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (924.56 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mg	
			1 mg	5 mg	10 mg
	1 mM		9.2456 mL	46.2278 mL	92.4556 mL
	5 mM		1.8491 mL	9.2456 mL	18.4911 mL
	10 mM		0.9246 mL	4.6228 mL	9.2456 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (23.11 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	1-Thioglycerol, commonly used as a reducing agent in various biochemical and biophysical applications, especially in protein chemistry and molecular biology, it can protect proteins from oxidation and denaturation, and can reduce disulfide bonds to thiols base, which can then be modified or analyzed. In addition, 1-Thioglycerol has been investigated for potential medical applications, including as an inhibitor of cystic fibrosis, which may help improve the function of lung cells, and has also been studied for Used in the preparation of metal nanoparticles and as a stabilizer for certain pharmaceutical preparations.
In Vitro	1-Thioglycerol is a biochemical reagent that can be used as a biological material or organic compound for life science related research. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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