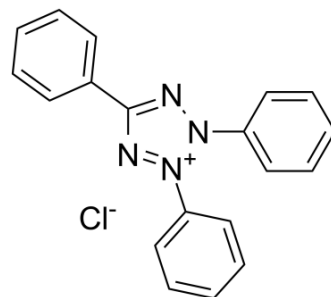


Tetrazolium Red

Cat. No.:	HY-D0714
CAS No.:	298-96-4
Molecular Formula:	C ₁₉ H ₁₅ ClN ₄
Molecular Weight:	334.8
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (149.34 mM; Need ultrasonic)
DMSO : 16.67 mg/mL (49.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9869 mL	14.9343 mL	29.8686 mL
	5 mM	0.5974 mL	2.9869 mL	5.9737 mL
	10 mM	0.2987 mL	1.4934 mL	2.9869 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetrazolium Red(2,3,5-Triphenyltetrazolium chloride; TPTZ) is used to visualize dehydrogenase enzyme activity; initially the tetrazolium solution is colorless but changes to red when it comes into contact with hydrogen. Tetrazolium red is used in a biochemical viability test for seeds. The test relies on dehydrogenase enzymes to release hydrogen ions which subsequently reduce the colorless tetrazolium salt solution to a red compound called formazan. Living cells turn red while dead cells remain colorless.

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

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