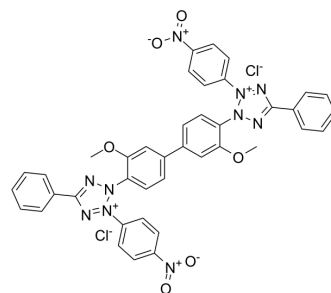


Nitro blue tetrazolium chloride

Cat. No.:	HY-15925
CAS No.:	298-83-9
Molecular Formula:	C ₄₀ H ₃₀ Cl ₂ N ₁₀ O ₆
Molecular Weight:	817.64
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

70%DMF : 100 mg/mL (122.30 mM; Need ultrasonic)
 DMSO : 33.33 mg/mL (40.76 mM; Need ultrasonic)
 H₂O : 8 mg/mL (9.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	1.2230 mL	6.1152 mL	12.2303 mL
	5 mM	0.2446 mL	1.2230 mL	2.4461 mL	
	10 mM	0.1223 mL	0.6115 mL	1.2230 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: ≥ 2.5 mg/mL (3.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (3.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (3.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nitro blue tetrazolium chloride (NBT) is a substrate for dehydrogenases; is used with the alkaline phosphatase substrate 5-Bromo-4-Chloro-3-Indolyl Phosphate (BCIP) in western blotting and immunohistological staining procedures.

CUSTOMER VALIDATION

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- Nat Commun. 2021 Jun 21;12(1):3803.
 - Cell Death Dis. 2021 May 8;12(5):462.

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

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