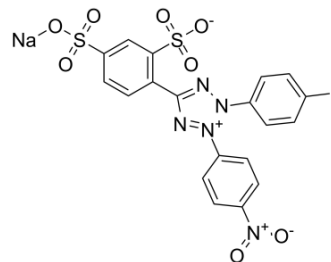


WST-1

Cat. No.:	HY-136976
CAS No.:	150849-52-8
Molecular Formula:	C ₁₉ H ₁₁ IN ₅ NaO ₈ S ₂
Molecular Weight:	651.34
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (38.38 mM; ultrasonic and warming and heat to 80°C)					
	H ₂ O : < 0.1 mg/mL (ultrasonic;warming;adjust pH to 9 with NaOH;heat to 80°C) (insoluble)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.5353 mL	7.6765 mL	15.3530 mL
5 mM			0.3071 mL	1.5353 mL	3.0706 mL	
10 mM		0.1535 mL	0.7676 mL	1.5353 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.84 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.84 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	WST-1 is a Tetrazolium dye, widely used in the cell viability assays. WST-1 produces a water-soluble formazan product (WST-1 formazan) that occurs at the cell surface in NADPH dependent manner in viable cells ^{[1][2]} .
In Vitro	WST-1 is used for a wide range of assays that include cell viability, proliferation, plasma membrane electron transport system, superoxide generation, superoxide dismutase, and xanthine oxidase assay ^[1] . A water-soluble formazan dye is produced from the reduction of WST-1 tetrazolium, of which optical density at 450 nm is measured to evaluate cell viability ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kyung-Mi Joo, et al. Development and validation of UPLC method for WST-1 cell viability assay and its application to MCTT HCE™ eye irritation test for colorful substances. *Toxicol In Vitro*. 2019 Oct;60:412-419.
- [2]. Munetaka ISHIYAMA, et al. A new sulfonated tetrazolium salt that produces a highly water-soluble formazan dye. *Chem. Pharm. Bull.* 1993, 41(6): 1118-1122.
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Caution: Product has not been fully validated for medical applications. For research use only.

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