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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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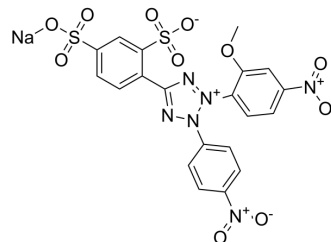
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WST-8

Cat. No.:	HY-D0831
CAS No.:	193149-74-5
Molecular Formula:	C ₂₀ H ₁₃ N ₆ NaO ₁₁ S ₂
Molecular Weight:	600.47
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 83.33 mg/mL (138.77 mM; Need ultrasonic)
DMSO : 10 mg/mL (16.65 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6654 mL	8.3268 mL	16.6536 mL
	5 mM	0.3331 mL	1.6654 mL	3.3307 mL
	10 mM	0.1665 mL	0.8327 mL	1.6654 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (166.54 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (1.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (1.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (1.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

WST-8 is a water-soluble tetrazolium dye, WST-8 enhances sensitivity of the WST-8-based assay over the conventional MTS-based assay.

In Vitro

The generally used MTS-based assay is compared with a bioassay employing a water-soluble tetrazolium dye, WST-8, using NFS-60 cells at a concentration of 7×10⁵ cells/mL against 800 IU/mL of PEGylated G-CSF at 24, 48, and 72 h time points to

determine the efficacy of PEGylated G-CSF. Further, the optimized WST-8 dye-based assay is used to test the potency of various commercially available PEGylated G-CSF preparations. The results demonstrate enhanced sensitivity of the WST-8-based assay over the conventional MTS-based assay for determining the potency of PEGylated G-CSF using the NFS-60 cell line^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2022 Oct 12;13(1):6016.
- Sci China Life Sci. 2021 Jun 25.
- J Nat Prod. 2022 Dec 21.
- Microorganisms. 2021 Mar 31;9(4):726.
- RSC Adv. 2020, 10, 43480-43488.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Tiwari K, et al. A sensitive WST-8-based bioassay for PEGylated granulocyte colony stimulating factor using the NFS-60 cell line. Pharm Biol. 2015 Jun;53(6):849-54.

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

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