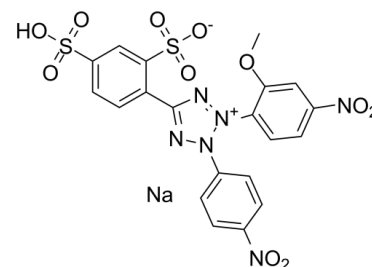


Data Sheet

Product Name:	WST-8
Cat. No.:	CS-5868
CAS No.:	193149-74-5
Molecular Formula:	C ₂₀ H ₁₄ N ₆ NaO ₁₁ S ₂
Molecular Weight:	601.48
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : ≥ 30 mg/mL (49.88 mM)



BIOLOGICAL ACTIVITY:

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 7×10^5 cells/mL against 800 IU/mL of PEGylated G-CSF at 24, 48, 72, 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].

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.

CAIndexNames:

2H-Tetrazolium, 5-(2,4-disulfophenyl)-3-(2-methoxy-4-nitrophenyl)-2-(4-nitrophenyl)-, inner salt, sodium salt (1:1)

SMILES:

COC1=CC([N+](O-)=O)=CC=C1[N+]2=NC(C3=CC=C(S(=O)(O)=O)C=C3S(=O)(O-)=O)=NN2C4=CC=C([N+](O-)=O)C=C4.[Na]

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

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