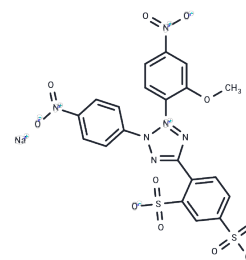


WST-8

Chemical Properties

CAS No. :	193149-74-5
Formula:	C ₂₀ H ₁₃ N ₆ NaO ₁₁ S ₂
Molecular Weight:	600.47
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	WST-8 is a water-soluble tetrazolium dye, and WST-8-based assays have higher sensitivity than traditional MTS-based assays.
Targets(IC50)	Others
In vitro	METHODS: A commonly used MTS-based assay was compared to a bioassay using the water-soluble tetrazolium dye WST-8 at a concentration of 7×10^5 cells/ml with 800 IU/ml PEGylated G-CSF at 24, 48, 72, and 72 h time points to determine the efficacy of PEGylated G-CSF. In addition, the optimized WST-8 dye-based assay was used to test the potency of various commercially available PEGylated G-CSF formulations. RESULTS The results demonstrated that the WST-8-based assay had greater sensitivity in determining the potency of PEGylated G-CSF using the NFS-60 cell line compared to the conventional MTS-based assay.[1]

Solubility Information

Solubility	H ₂ O: 50 mg/mL (83.27 mM),Sonication is recommended. DMSO: 255 mg/mL (424.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.67 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0333 mL	0.1665 mL	0.3331 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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