

WST-8, reagent for cell proliferation assay

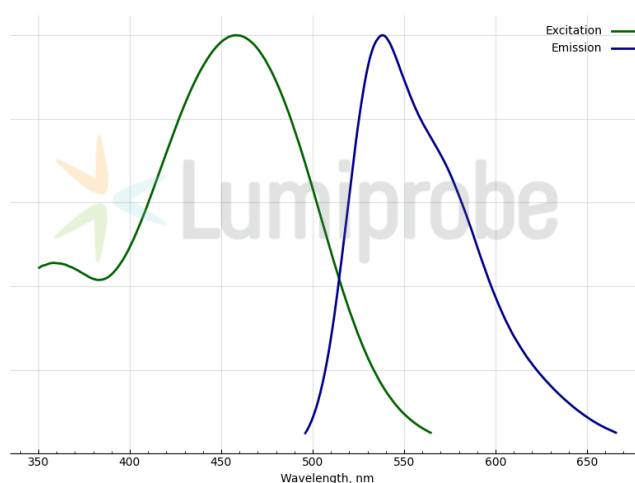
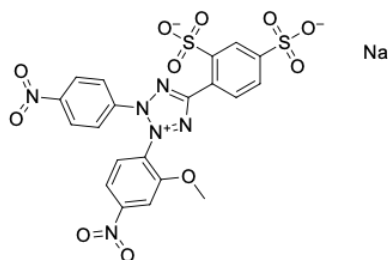
<http://cn.lumiprobe.com/p/wst-8-reagent>

WST-8 (Water-Soluble Tetrazolium 8) is a water-soluble tetrazolium salt widely used to assess the metabolic activity of cells. The dye does not penetrate living cells but can be reduced outside the cells by NADPH-dependent cellular oxidoreductases to water-soluble formazan. The reaction occurs by electron transfer across the plasma membrane in a neutral pH and the presence of an intermediate electron acceptor, 1-methoxyphenazine methosulfate. The staining intensity is proportional to the number of viable cells. The maximum absorption of the reaction product is 450-500 nm.

The use of WST-8 has **several advantages**:

- Unlike MTT, working with WST-8 does not require dissolving formazan crystals, simplifying the protocol, and eliminating the use of toxic solvents (e.g., DMSO).
- Cell analysis using WST-8 is a one-step method. The reagent is added directly to the culture medium, and the results are read without additional processing.
- WST-8 is non-toxic to cells, which allows for long incubations (up to 24 hours) without the risk of artifacts.
- High sensitivity of the method. A wide dynamic range ensures accuracy even at low cell density.
- The method is compatible with adherent and suspension cultures and various types of spectrophotometric measurement plates.

We also supply WST-8 as a ready-to-use kit for cell proliferation assay.



外观:

分子量: 600.47

CAS 编号: 193149-74-5

分子式: C₂₀H₁₄N₆NaO₁₁S₂

IUPAC 名称: 2-(2-Methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium, sodium salt

溶解度: 水、二甲基亚砷

质量控制: NMR ¹H 和 HPLC-MS (95+%)

储存条件: 收到后在 -20°C 黑暗条件下可保存 24 个月。运输: 室温下最多可保存 3 周。干燥。

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