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WST-8, reagent for cell proliferation assay

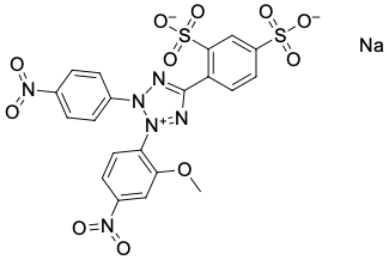
http://cn.lumiprobe.com/p/wst-8-reagent

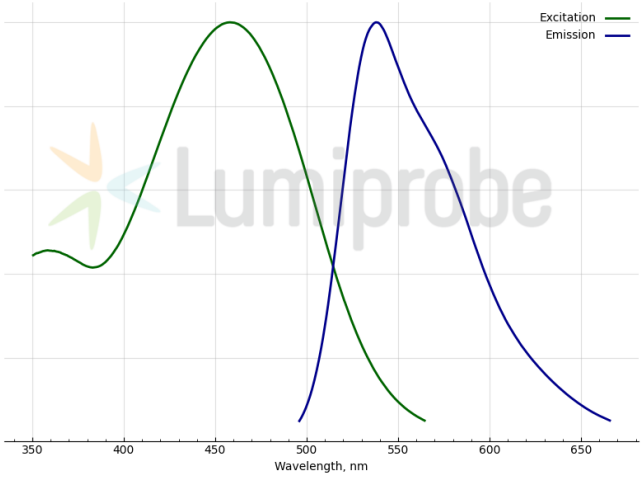
WST-8 (Water-Soluble Tetrazolium 8) is a water-soluble tetrazolium salt widely used to assess the metabolic activity of cells. The dye does not penetrate living cells but can be reduced outside the cells by NADPH-dependent cellular oxidoreductases to water-soluble formazan. The reaction occurs by electron 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:	$C_{20}H_{14}N_6NaO_{11}S_2$
IUPAC 名称:	2-(2-Methoxy-4-nitropenyl)-3-(4-nitropenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium, sodium salt
溶解度:	水、二甲基亚砜
质量控制:	NMR ^{1}H 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。
法律声明:	本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途 。

激发/吸收极大值，纳米: 458

发射极大值，纳米: 538