

Product Data Sheet

Product Name: XTT (sodium salt hydrate)

Cat. No.: GC48261

Chemical Properties

Cas. No. 413585-64-5

SMILES COC(C=C([N+])([O-])=O)C(S([O-])(=O)=O)=C1)=C1N2N=C(C(NC3=CC=CC=C3)=O)N=[N+]2C4=CC(S([O-])(=O)=O)=C([N+])([O-])=O)C=C4OC.[Na+].O

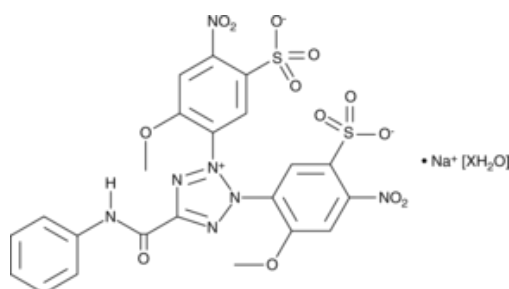
Formula $C_{22}H_{16}N_7O_{13}S_2.Na [XH_2O]$ M.Wt 650.5

Solubility DMF: 0.5 mg/ml, DMSO: 3.3 mg/ml, PBS (pH 7.2): 3.3 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

XTT is a cell-impermeable, negatively charged tetrazolium dye that produces a water-soluble formazan when reduced at the cell surface by cellular-derived NADH and an electron mediator.^{1,2} It is frequently used in colorimetric assays to measure cell proliferation, cytotoxicity, and apoptosis.³

1. Berridge, M.V., Tan, A.S., and Herst, P.M. Tetrazolium dyes as tools in cell biology: New insights into their cellular reduction. *Biotechnol. Ann. Rev.* 11:127-152 (2005). 2. Berridge, M.V., and Tan, A.S. Trans-plasma membrane electron transport: A cellular assay for NADH- and NADPH-oxidase based on extracellular, superoxide-mediated reduction of the sulfonated tetrazolium salt WST-1. *Protoplasma* 205:74-82 (1998). 3. Sutherland, M.W., and Learmonth, B.A. The tetrazolium dyes MTS

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

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and XTT provide new quantitative assays for superoxide and superoxide dismutaseFree Radical
Research27(3)283-289(1997)

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