XTT (sodium salt)

Item No. 14919

CAS Registry No.: 111072-31-2

Formal Name: 2,3-bis(2-methoxy-4-nitro-5-sulfophenyl)-5-[(phenylamino)carbonyl]-inner salt-2H-tetrazolium, monosodium salt

MF: C22H16N7O13S2 • Na

FW: 673.5

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid

Laboratory Procedures

For long term storage, we suggest that XTT (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

XTT (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the XTT (sodium salt) in the solvent of choice. XTT (sodium salt) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of XTT (sodium salt) in these solvents is approximately 3.3 and 0.5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of XTT (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of XTT (sodium salt) in PBS, pH 7.2, is approximately 3.3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

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

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14919

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

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This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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