Trimidox (hydrochloride)

**CAS Registry No.:** 95933-75-8

**Item No.** 10011124

**Formal Name:** N,3,4,5-tetrahydroxybenzencarboximidamide, monohydrochloride

**Synonym:** VF 233 (hydrochloride)

**MF:** C_7_H_8_N_2_O_4 • HCl

**FW:** 220.6

**Purity:** ≥98%

**Stability:** ≥2 years at -20°C

**Supplied as:** A crystalline solid

**UV/Vis.:** λ_{max}: 220, 280 nm

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**Laboratory Procedures**

For long term storage, we suggest that trimidox be stored as supplied at -20°C. It will be stable for at least two years.

Trimidox is supplied as a crystalline solid. A stock solution may be made by dissolving the trimidox in an organic solvent purged with an inert gas. Trimidox is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of trimidox in these solvents is approximately 20 mg/ml.

Trimidox is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, trimidox should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Trimidox has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Ribonucleotide reductase, the rate-limiting enzyme for de novo DNA synthesis, is a common target for chemotherapy. Its increased activity in cancer cells is associated with malignant transformation and proliferation. Trimidox is a specific ribonucleotide reductase inhibitor that reduces levels of dGTP and dCTP in HL-60 cells, inducing apoptosis via activation of caspases without altering the cell cycle distribution. Trimidox inhibits growth of human promyelocytic leukemia HL-60 cells with an IC_{50} value of 35 μM.

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**References**


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**Related Products**

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