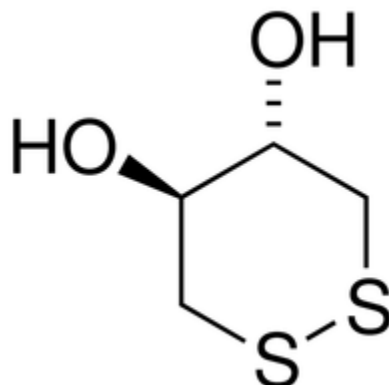


Oxidized Dithiothreitol (OxDTT)

BioVectra Inc.



Oxidized Dithiothreitol - trans-1,2-Dithiane-4,5-diol

CAT#: 1364

CAS #: 14193-38-5

PURITY: ≥99%

AVAILABLE IN: 10g / 100g / 1kg

APPLICATIONS:

Oxidized DTT can promote the refolding of proteins that have been denatured and reduced¹.

Oxidized DTT has been used to identify intermediates in the protein refolding process^{2,3,4,5}.

Oxidized DTT has been shown to induce transcriptional activation of stress response genes in mammalian cell lines⁶.

¹Buus, Soeren and Ferre, Henrik. *Method for Purifying Denatured Proteins Having the Desired Disulfide Bond Configuration*. WO2003097669 PCT, May 17, 2002. BioTechnology.

²*Kinetic and Thermodynamic Analysis of the Conformational Folding Process of SS-Reduced Bovine Pancreatic Ribonuclease A Using a Selenoxide Reagent with High Oxidizing Ability*. Arai, K, Kumakura, F and Iwaoka, M. 2012, FEBS Open Bio., pp. 60-70

³*Regeneration of Bovine Pancreatic Ribonuclease A: Identification of Two Nativelike Three-Disulfide Intermediates involved in Separate Pathways*. Rothwarf, DM, Li, YJ and Sheraga, HA. 1998, Biochemistry, pp. 3760-3766

⁴*Two New Structured Intermediates in the Oxidative Folding of RNase A*. Welker, E, et al., et al. 1999, FEBS Lett., pp. 477-479.

⁵*Structural Determinants of Oxidative Folding in Proteins*. Welker, E, et al., et al. 2001, Proc. Natl. Acad. Sci. USA, pp. 2312-2316

⁶*Reduction of trans-4,5-dihydroxy-1,2-dithiane by Cellular Oxidoreductases Activates gadd153/chop and grp78 Transcription and Induces Cellular Tolerance in Kidney Epithelial Cells*. Halleck, MM, et al., et al. 1997, J. Biol. Chem, pp. 21760-21766

For details, references and application notes,
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One of the world's largest original manufacturers of Oxidized Dithiothreitol (OxDTT)