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PRODUCT SPECIFICATION

Product No.	TRX-01
Product description:	Thioredoxin 1 from <i>E. coli</i> (oxidized form)
Lot No.	10
Specifications:	One ampoule contains 1 mg thioredoxin 1 (Trx1) from <i>E. coli</i> , $M_r = 11.700$ (Native, no His-tag) Lyophilized from 600 μ l of 50 mM Tris-HCl, 1 mM EDTA, pH 7.5. Use: Dissolve in 170 μ l of water. This gives a solution of 500 μ M of thioredoxin-S ₂ . Molar extinction coefficient is 13,700 at A ₂₈₀ nm.
Reference:	Holmgren, A. and Björnstedt, M. (1995) <i>Methods Enzymol.</i> 252, 199-208.
Storage:	Keep at frozen or at +4°C
Examples of use:	Activity can be measured with the thioredoxin-dependent reduction of insulin using recombinant rat thioredoxin reductase (Product No TR-03). The test mixture should contain 160 μ M insulin and 0.2 mM NADPH in 0.1 M potassium phosphate, 2mM EDTA, pH 7,0. In the presence of 10 μ M <i>E. coli</i> thioredoxin, 7 nM of mammalian thioredoxin reductase will give a decrease of absorbance at 340 nm of 0.034 min ⁻¹ .

NOTE! Make sure to reconstitute all of the lyophilized protein in the ampoule. After adding buffer, close the screw-cap again, shake vigorously, then centrifuge shortly, in order to recover liquid from tube cap and walls.