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PRODUCT SPECIFICATION

Product No.	TRX-05
Product description:	Mouse thioredoxin 1
Lot No.	03
Specifications:	One ampoule contains 100 µg saltfree recombinant mouse cytosolic thioredoxin. Lyophilized from 0.5% NH ₄ HCO ₃ . Contains 6-His tag. Fully active with mammalian thioredoxin reductase. Use: Reconstitute with H ₂ O or buffer.
Reference:	Ren, X. et al. (1998) <i>Biochemistry</i> , 32, 9701-9708.
Storage:	Keep at +4°C or alternatively reconstituted protein in aliquots at -20°C. Lyophilized substance.
Examples of use:	Activity can be measured with the thioredoxin-dependent reduction of insulin using rat recombinant thioredoxin reductase (Product No TR-03). The test mixture should contain 160 µM insulin and 0.2 mM NADPH in 0.1 M potassium phosphate, 2mM EDTA, pH 7.0. In the presence of 5 µM mouse thioredoxin, 7 nM of mammalian thioredoxin reductase will give a decrease of absorbtion at 340 nm of 0.100 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.

The oxidized protein can display a lag phase in enzyme assays. See Ren, X. et al. (1998) *Biochemistry*, 32, 9701-9708.