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PRODUCT SPECIFICATION

Product No. GRX-02

Product description: Human Glutaredoxin 2

Lot No. 01

Specifications: Lyophilized recombinant human glutaredoxin 2 (Grx2c).

An amount of 250 µg of human Grx2 D41-164 (exons 1a-IV) in 31 µl of 50 mM Tris-Cl-1 mM EDTA, pH 7.5 was lyophilized. Concentration of glutaredoxin before lyophilization was 457 µM.

Use: Reconstitute with water or buffer.

References:

A Lundberg, M., Johansson, C., Chandra, J., Enoksson, M., Jacobsson, G., Ljung, J., Johansson, M. and Holmgren, A.: Cloning and expression of a novel human glutaredoxin (Grx2) with mitochondrial and nuclear isoforms. *J. Biol. Chem.*, 276, 26269-26275, 2001. **B** Johansson, C., Lillig C.H. and Holmgren, A.: Human mitochondrial glutaredoxin reduces S-glutathionylated proteins with high affinity accepting electrons from either glutathione or thioredoxin reductase. *J. Biol. Chem.*, 279, 7537-7543, 2004. **C** Lillig, C.H., Berndt, C., Vergnollé, O., Lönn, M.E., Bill, E. and Holmgren, A.: Characterization of human glutaredoxin 2 as new iron-sulfur protein: a possible role as redox sensor. *Proc. Natl. Acad. Sci., USA*, 102, 8168-8173, 2005. **D** Lönn, M.E., Hudemann, C. Berndt, C., Cherkasov, V, Capani, F., Holmgren, A. and Lillig, C. H.: Expression pattern of human glutaredoxin 2 isoforms: identification and characterization of two testis/ cancer cell specific isoforms. *Antioxid. Redox. Signal.* 10,547-557, 2008.

Storage: Keep at +4°C or frozen

NOTE! Make sure to reconstitute all lyophilized protein. After addition of liquid to the ampoule, shake vigorously. Subsequently centrifuge shortly, in order to recover liquid from tube and walls.