

Human Recombinant GSR

CATALOG #:	6352-50	50 µg
ALTERNATE NAMES:	Glutathione reductase, GLUR, GRD1.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	54.3 kDa (504 aa, 43-522 aa + NT His Tag)	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 1 mM DTT, 0.1 M NaCl and 10% glycerol.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

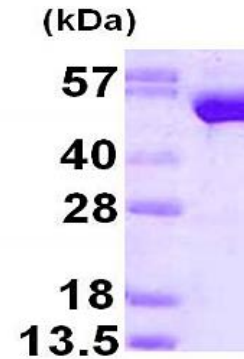
Glutathione reductase, also known as GSR or GR, is an enzyme that reduces glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. In most eukaryotic cells, GSR maintains the ratio of GSH / GSSG, and participates in several vital functions such as the detoxification of reactive oxygen species as well as protein and DNA biosynthesis.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MGSAMACRQ EPQPQGPPPA AGAVASYDYL
VIGGGSGGLA SARAAELGA RAAVVESHKL GGTCVNVGCV PKKVMWNTAV
HSEFMHDHAD YGFPSCEGKF NWRVIKEKRD AYSRLNAIY QNNLTKSHIE IIRGHAAFTS
DPKPTIEVSG KKYTAPHILI ATGGMPSTPH ESQIPGASLG ITSDGFFQLE ELPGRSVIVG
AGYIAVEMAG ILSALGSKTS LMIRHDKVLR SFDSMISTNC TEELNAGVE VLKFSQVKEV
KKTLGSELEVS MVTAVPGRPLP VMTMIPDVDC LLWAIGRVPN TKDLSLNKLG IQTDDKGHII
VDEFQNTNVK GIYAVGDVCG KALLTPVAIA AGRKLAHRLF EYKEDSKLDY NNIPTVVFSH
PPIGTVGLTE DEAIHKYIE NVKTYSTSFT PMYHAVTKRK TKCVMKMVCA NKEEKVVGIH
MQGLGCDEML QGFVAVKMG ATKADFDNTV AIHPTSSEEL VTLR

BIOLOGICAL ACTIVITY:

Specific activity: > 29 units/ml. One unit will reduce 1.0 µmol of oxidized glutathione per minute at pH 7.5 at 25°C



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- GST Colorimetric Activity Assay Kit (**Cat. No. K263-100**)
- GST Fluorometric Activity Assay Kit (**Cat. No. K260-100**)
- GST Inhibitor-1 (Cibacron Blue 3G-A, Sodium Salt) (**Cat. No. 1555R-1000**)
- GST Inhibitor-2 (Ethacrynic acid) (**Cat. No. 1556-1000**)
- Human recombinant GSTA1 (**Cat. No. 6346-100**)
- Human recombinant GSTP1 (**Cat. No. 6347-100**)
- Mouse recombinant GSTMu1 (**Cat. No. 6348-100**)
- Mouse recombinant GSTM1 (**Cat. No. 6349-100**)
- Human recombinant GSTM2 (**Cat. No. 6350-100**)
- Schistosoma japonicum recombinant GST (**Cat. No. 6351-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.