

RPPB1749

Product Information Protein Information

Product SKU:

RPPB1749

Accession:

P00390

Host:

Escherichia Coli.

Protein description:

GSR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 504 amino acids (43-522) and having a molecular mass of 54.3kDa. GSR is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

Glutathione reductase mitochondrial, GR, GRase, GSR, GLUR, GRD1.

Formulation:

The GSR solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SGLVPRGSH MGSMAMACRQ EPQPQPPPA AGAVASYDYL VIGGGSGGLA SARAAELGA
RAAVVESHKL GGTCVNVGCV PKKVMWNTAV HSEFMHDHAD YGFPSCEGKF NWRVIKEKRD AYSRLNAIY
QNNLTKSHIE IIRGHAAFTS DPKPTIEVSG KKYTAPHILI ATGGMPSTPH ESQIPGASLG ITSDGFFQLE
ELPGRSVIVG AGYIAVEMAG ILSALGSKTS LMIRHDKVLR SFDSMISTNC TELENAGVE VLKFSQVKEV
KKTLSGLEVS MVTAVPGRLP VMTMIPDVDC LLWAIGRVPN TKDLSLNKLG IQTDDKGHII VDEFQNTNVK
GIYAVGDVCG KALLTPVAIA AGRKLAHRLF EYKEDSKLDY NNIPTVVFSH PPIGTVGLTE DEAIHKYIE
NVKTYSTSFT PMYHAVTKRK TKCVMKMVCA NKEEKVVGII MQGLGCDEML QGFAVAVKMG ATKADFDNTV
AIHPTSSEEL VTLR.

Biological Activity:

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