

Product Datasheet

Recombinant Human Glutathione Reductase Protein NBP1-78817-50ug

Unit Size: 50 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-78817-50ug**Recombinant Human Glutathione Reductase Protein**

Product Information	
Unit Size	50 ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	>95% pure by SDS-PAGE
Buffer	20 mM Tris-HCl buffer (pH 8.0), 1 mM DTT, 10% glycerol, 0.1 M NaCl
Target Molecular Weight	54.3 kDa
Product Description	
Description	A bioactive recombinant protein with a N-Terminal His-tag and corresponding to the amino acids 43-522 of Human Glutathione Reductase Source: <i>E.coli</i> Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMAMACRQ EPQPQGPPPA AGAVASYDYL VIGGGSGGLA SARAAELGA RAAVVESHKL GGTCVNVGCV PPKVMWNTAV HSEFMHDHAD YGFPSCEGKF NWRVIKEKRD AYVSRLNAIY 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 DEAIHKYGIE NVKTYSTSFT PMYHAVTKRK TKCVMKMVCA NKEEKVVGIIH MQGLGCDEML QGFAVAVKMG ATKADFDNTV AIHPTSSEEL VTLR
Gene ID	2936
Gene Symbol	GSR
Species	Human
Details of Functionality	Specific activity is > 45 units/mg. The unit definition for glutathione reductase activity may be expressed in terms of the oxidation of NADPH or the reduction of GSSG since their molar ratio is 1:1. One unit of glutathione reductase oxidizes 1 umol of NADPH per minute at 37C, pH 7.5.
Product Application Details	
Applications	Functional, SDS-Page, Bioactivity
Recommended Dilutions	Functional, SDS-Page, Bioactivity



Procedures

SDS-PAGE (NBP1-78817)

1. Prepare a 1,450 µl assay buffer. The final concentrations are 75mM Potassium phosphate (pH 7.5), 2.6mM EDTA 1mM glutathione, 0.09mM beta-NADPH, 0.13% BSA.

2. Add 50 µl of recombinant GSR protein with 0.018 µg, 0.037 µg and 0.075 µg in assay buffer

3. Mix and load 200 µl of reaction mix in to a plate well.

4. Record the decrease in A340nm for 5 minutes at 25C



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