Recombinant human GRHPR protein

Catalog Number: ATGP0577

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-328aa

UniProt No.
Q9UBQ7

NCBI Accession No.
NP_036335

Alternative Names
Glyoxylate reductase/hydroxypyruvate reductase, GLXR, GLYD, PH2, Glyoxylate reductase/hydroxypyruvate reductase glycerate 2 dehydrogenase, Glyoxylate reductase/hydroxypyruvate reductase, OTTHuMP00000046131, PH 2, Primary hyperoxaluria type 2,

PRODUCT SPECIFICATION

Molecular Weight
37.8 kDa (348aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
GRHPR, also known as GLXR, is a member of the D-isomer specific 2-hydroxyacid dehydrogenase family of proteins. Localizing to the cytosol, GRHPR is ubiquitously expressed with highest expression levels found in liver. The protein has widespread tissue expression and has a role in metabolism. GRHPR is an enzyme with hydroxypyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase enzymatic activities.

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Recombinant human GRHPR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

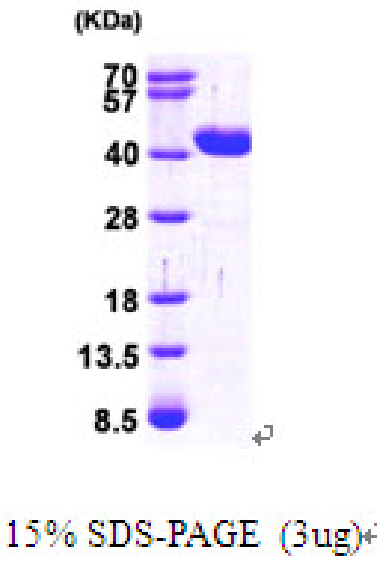
MGSSHHHHHH SSGLVPRGSH MRPVRLMKVF VTRRIPAEGR VALARAADCE VEQWDSDEPI PAKELERGVA GAHGLLCLLS DHVDKRILDA AGANLKVIST MSVGIDHLAL DEIKKRGIRV GYTPDVLTDT TAELAVSLLL TTCRRLPEAI EEVKNGGWTS WKPLWLCGYG LTQSTVGIIG LGRIGQAIAR RLKPFGVQRF LYTGRQPRPE EAAEFQAEFV STPELAAQSD FIVVACSLTP ATEGLCNKDF FQKMKETAVF INISRGDVVN QDDLYQALAS GKIAAAGLDV TSPEPLPTNH PLLTLKNCVI LPHIGSATHR TRNTMSLLAA NNLLAGLRGE PMPSELKL

General References

Booth MP., et al. (2006) J Mol Biol. 360(1):178-89.
Genolet R., et al. (2005) J Biol Chem. 280(25):24143-52.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.