Recombinant e.coli cysH protein

Catalog Number: ATGP1041

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-244aa

UniProt No.
P17854

NCBI Accession No.
NP_417242

Alternative Names
Phosphoadenosine phosphosulfate reductase

PRODUCT SPECIFICATION

Molecular Weight
30.1 kDa (264aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM DTT, 20% glycerol

Purity
> 90% 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
CysH (Phosphoadenosine phosphosulfate reductase) belongs to the PAPS reductase family, specifically those acting on a sulfur group of donors with a disulfide as acceptor. In enzymology, a cysH is an enzyme that catalyzes the chemical reaction. Three substrates of this enzyme are adenosine 3', 5'-bisphosphate, sulfite, and thioredoxin disulfide, whereas its two products are 3'-phosphoadenylyl sulfate and thioredoxin. Recombinant E. coli cysH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant e.coli cysH protein

Catalog Number: ATGP1041

Amino acid Sequence

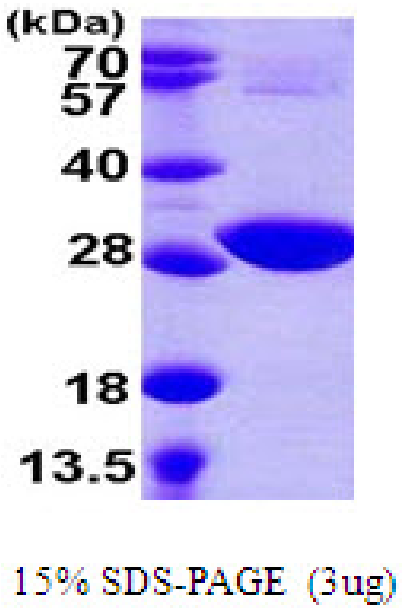
MGSSHHHHHH SSGLVPRGSH MSKLDLNALN ELPKVDRILA LAETNAELEK LDAEGRVAWA LDNLPGEYVL SSSFGIQAAV SLHLVNQIRP DIPVILTDTG YLFPETYRFI DELTDKLKLN LKVYRATESA AWQEARYGKL WEQGVEGIEK YNDINKVEPM NRALKELNAQ TWFAGLRREQ SGSRANLPVL AIQRGVFKVL PIIDWDNRTI YQYLQKHGLK YHPLWDEGYL SVGDTHTTRK WEPGMAEEET RFFGLKRECG LHEG

General References

Berendt u., et al. (1995) Eur. J. Biochem. 233 (1): 347-56.
Krone F.A., et al. (1990) FEBS Lett. 260:6-9

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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