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# 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.



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# **Amino acid Sequence**

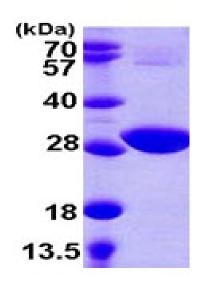
MGSSHHHHHH SSGLVPRGSH MSKLDLNALN ELPKVDRILA LAETNAELEK LDAEGRVAWA LDNLPGEYVL SSSFGIQAAV SLHLVNQIRP DIPVILTDTG YLFPETYRFI DELTDKLKLN LKVYRATESA AWQEARYGKL WEQGVEGIEK YNDINKVEPM NRALKELNAQ TWFAGLRREQ SGSRANLPVL AIQRGVFKVL PIIDWDNRTI YQYLQKHGLK YHPLWDEGYL SVGDTHTTRK WEPGMAEEET RFFGLKRECG LHEG

#### **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.

