

## CYSH E.Coli

**Description:** CYSH produced in E.Coli is a single, non-glycosylated polypeptide chain containing 264 amino acids (1-244 a.a.) and having a molecular mass of 30.1kDa. CYSH is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-138

For research use only.

**Synonyms:** Phosphoadenosine phosphosulfate reductase, 3'-phosphoadenylylsulfate reductase, PAPS reductase, thioredoxin dependent, PAPS sulfotransferase, PAdoPS reductase, cysH, b2762, JW2732.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSKLDLNALN ELPKVDRILA  
LAETNAELEK LDAEGRVAWA LDNLPGYVL SSSFGIQAAV SLHLVNQIRP DIPVILTDTG  
YLPETRYRFI DELTDKLN LKVYRATESA AWQEARYGKL WEQGVGIEK YNDINKVEPM  
NRALKELNAQ TWFAGLRREQ SGSRLNLPVL AIQRGVFKVL PIIDWDNRTI YQYLQKHGLK  
YHPLWDEGYL SV

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

CYSH protein solution (0.5mg/ml) 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.

**Stability:**

CYSH E.Coli Recombinant although stable at 4°C for 1 week, should be stored below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

CysH (Phosphoadenosine phosphosulfate reductase) is a member of the PAPS reductase family, specifically those acting on a sulfur group of donors with a disulfide as acceptor. The 3 substrates of the CysH enzyme are adenosine 3',5'-bisphosphate, sulfite, and thioredoxin disulfide, whereas its two products are 3'-phosphoadenylyl sulfate and thioredoxin.

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