

Recombinant human Rhodanese/TST protein

Catalog Number: ATGP0423

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-297aa

UniProt No.

Q16762

NCBI Accession No.

NP_003303.2

Alternative Names

RDS, TST, Rhodanese, Thiosulfate Sulfurtransferase

PRODUCT SPECIFICATION

Molecular Weight

35.5 kDa (317aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% 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

Thiosulfate sulfurtransferase (TST), also known as Rhodanese, is a mitochondrial enzyme that involved in cyanide detoxification and the modification of sulfur-containing enzymes. This protein contains two highly conservative domains, known as rhodanese homology domains. In mammals, most cyanide is converted to thiocyanate by this enzyme. TST also has weak mercaptopyruvate sulfurtransferase activity. Recombinant TST protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MVHQVLYRAL VSTKWLAESI RTGKLGPLR VLDASWYSPG TREARKEYLE
RHVPGASFFD IEECRDTASP YEMMLPSEAG FAEYVGRGLI SNHTHVVVD GEHLGSFYAP RVWWMFRVFG HRTVSVLNGG
FRNWLKEGHP VTSEPSRPEP AVFKATLDRS LLKTYEQVLE NLESKRFLV DSRSQGRFLG TEPEPDAVGL DSGHIRGAVN
MPFMDFLTED GFEKGPEELR ALFQTKKVDL SQPLIATCRK GVTACHVALA AYLCGKPDVA VYDGSWSEWF RRAPPESRVS
QGKSEKA

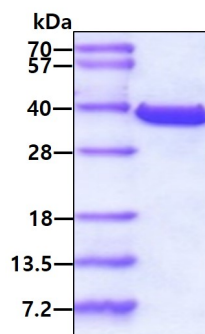
General References

Pallini R., et al. (1991) Biochem Biophys Res Commun. 180(2):887-93.

Aita N., et al. (1997) Biochem Biophys Res Commun. 231(1):56-60.

DATA

SDS-PAGE



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