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

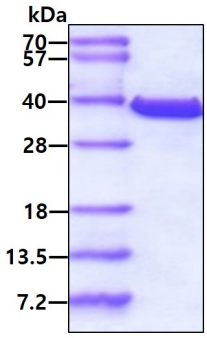
<MGSSHHHHHH SSGLVPRGSH> MVHQVLYRAL VSTKWLAESI RTGKLGPGLR VLDASWYSPG TREARKEYLE RHVPGASFFD IEECRDTASP YEMMLPSEAG FAEYVGRLGI SNHTHVVVYD GEHLGSFYAP RVWWMFRVFG HRTVSVLNGG FRNWLKEGHP VTSEPSRPEP AVFKATLDRS LLKTYEQVLE NLESKRFQLV DSRSQGRFLG TEPEPDAVGL DSGHIRGAVN MPFMDFLTED GFEKGPEELR ALFQTKKVDL SQPLIATCRK GVTACHVALA 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.