

Thiosulfate sulfurtransferase, 1-297 aa, Human, E.coli

Cat.NO.: TP04206

3th Edition

Synonyms:RDS, TST, Rhodanese , Thiosulfate Sulfurtransferase

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Molecular Weight:35.6 kDa (317aa), confirmed by MALDI-TOF.

Sequences:

MGSSHHHHHHSSGLVPRGSHMVHQVLYRALVSTKWLAESIRTGKLGPLRVLDASWYSPGTREARKEYLERHVP
GASFFDIEECRDTASPYEMMLPSEAGFAEYVGRGLGISNHTVVVYDGEHLGSFYAPRVVWMFRVFGHRTVSVLN
GGFRNWLKEGHPVTSEPSRPEPAVFKATLDRSLLKTYEQVLENLESKRFQLVDSRSQGRFLGTEPEPDAVGLDSG
HIRGAVNMPFMDFLTEDGFKEGPEELRALFQTKKVDLSQPLIATCRKGV TACHVALAAYLCGKPDVAVYDGSWSE
WFRRAPPESRVSQGKSEKA

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.