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Rhodanese Human

Catalog #:ENPS-466

For research use only.

Description: Recombinant Human Rhodanese produced in E.Coli is a single, non-glycosylated polypeptide chain containing 317 amino acids (1-297 a.a) and having a molecular mass of 35.6 kDa. Rhodanese is fused to a 20 amino acid His-Tag at N-terminus and purified by conventional chromatography techniques.

Synonyms:EC 2.8.1.1, TST, MGC19578, RDS, Thiosulfate sulfurtransferase, Rhodanese.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

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 MP

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The Rhodanese protein solution contains 20mM Tris-HCl, pH-8 and 10% Glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:
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Introduction:
Rhodanese is a mitochondrial matrix enzyme that is encoded by the nucleus. Rhodanese is involved in cyanide detoxification, the formation of iron-sulfur proteins, and the modification of sulfur-containing enzymes. Rhodanese catalyzes the chemical reaction of thiosulfate & cyanide to sulfite & thiocyanate (detoxification). Rhodanese is part of the transferase family of proteins. Rhodanese includes two highly conservative domains, identified as rhodanese homology domains. In mammals, the majority of cyanide is converted to thiocyanate. Rhodanese has weak mercaptopyruvate sulfurtransferase activity.

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