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## Product Data Sheet

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Product Name: Rhodanese Human  
 Cat. No.: GP22220  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.8.1.1; TST; MGC19578; RDS; Thiosulfate sulfurtransferase; Rhodanese.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MVHQVLYRAL VSTKWLAESI RTGKLG PGLR VLDASWYSPG TREARKEYLE RHVPGASFFD IEECRDTASP YEMMLPSEAG FAEYVGR LGI SNHTHVVVYD GEHLGSFYAP RVWWMFRVFG HRTVSVLNGG FRNWLKEGHP VTSEPSRPEP AVFKATLDRS LLKTYEQVLE NLESKR FQLV DRSQGRFLG TEPEPDAVGL DSGHIRGAVN MPFMDFLTED GFEKGPEELR ALFQTKKVDL SQPLIATCRK GVTACHVALA AYLCGKPDVA VYDGSWSEWF RRAPPESRVS QGKSEKA.		
Formulation	The Rhodanese protein solution contains 20mM Tris-HCl, pH-8 and 10% Glycerol.		

### 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.

### 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%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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.

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