

Product datasheet for **AR09890PU-L**

TSTD1 (1-115, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	TSTD1 (1-115, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MAGAPTVSLP ELRLLASGR ARLFDVRSRE EAAAGTIPGA LNIPVSELES ALQMEPAAFQ ALYSAEKPKL EDEHLVFFCQ MGKRGLQATQ LARSLGYTGA RNYAGAYREW LEKES
Tag:	His-tag
Predicted MW:	14.6 kDa
Concentration:	lot specific
Purity:	>95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 100 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TSTD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001106676</u>
Locus ID:	100131187
UniProt ID:	<u>Q8NFU3</u>
Cytogenetics:	1q23.3
Synonyms:	KAT; TST



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Summary:

Thiosulfate:glutathione sulfurtransferase (TST) required to produce S-sulfanylglutathione (GSS(-)), a central intermediate in hydrogen sulfide metabolism (PubMed:24981631). Provides the link between the first step in mammalian H₂S metabolism performed by the sulfide:quinone oxidoreductase (SQOR) which catalyzes the conversion of H₂S to thiosulfate, and the sulfur dioxygenase (SDO) which uses GSS(-) as substrate (PubMed:24981631). The thermodynamic coupling of the irreversible SDO and reversible TST reactions provides a model for the physiologically relevant reaction with thiosulfate as the sulfane donor (PubMed:24981631).[UniProtKB/Swiss-Prot Function]

Product images: