

Recombinant *Staphylococcus aureus* TST Protein Product Manual

1. Product Basic Information

Product No.: REP08561

Protein Name: Thiosulfate Sulfurtransferase (TST)

Aliases: thiosulfate sulfurtransferase; thiosulfate sulfurtransferase (rhodanese); epididymis secretory sperm binding protein

UniProt ID: Q16762

UniProt Link: <https://www.uniprot.org/uniprotkb/Q16762/entry>

Species Source: *Staphylococcus aureus*

Expression System: *E. coli*

Protein Length: Full Length of Mature Protein (41-234aa)

Molecular Weight: 37.9kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (41-234aa)

STNDNIKDLLDWYSSGSDTFTNSEVLDNSLGSMRIKNTDGSISLIIFSPYYSPAFTK
GEKVDLNTKRTKKSQHTSEGTYIHFQISGVTNTEKLPTPIELPLKVKVHKGDSPLKYG
PKFDKKQLAISTLDFEIRHQLTQIHGLYRSSDKTGGYWKITMNDGSTYQSDLSKKFE
YNTEKPPINIDEIKTIEAEIN

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions



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Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Staphylococcus aureus* TST full length of mature protein (41-234aa) expressed in *E.coli*. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. TST, also known as thiosulfate sulfurtransferase or thiosulfate sulfurtransferase (rhodanese) or epididymis secretory sperm binding protein, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.