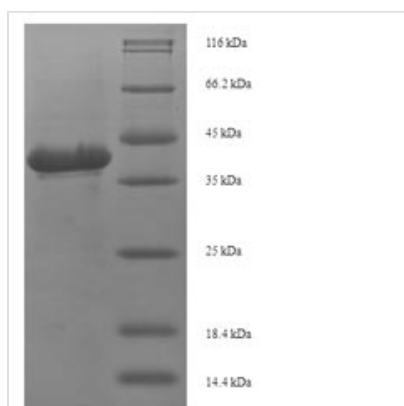




Recombinant Staphylococcus aureus Toxic shock syndrome toxin-1 (tst)

Product Code	CSB-EP361973FKZ
Relevance	Responsible for the symptoms of toxic shock syndrome.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P06886
Alias	TSST-1
Product Type	Recombinant Protein
Immunogen Species	Staphylococcus aureus
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	STNDNIKDLLDWYSSGSDTFTNSEVLDNSLGSMRIKNTDGSISLIIFSPYYSPA FTKGEKVDLNTKRTKKSQHTSEGTYIHFQISGVTNTEKLPTPIELPLKVKVHGK DSPLKYGPKFDKKQLAISTLDFEIRHQLTQIHGLYRSSDKTGGYWKITMNDGST YQSDLSKKFEYNTEKPPINIDEIKTIEAEIN
Lead Time	3-7 business days
Source	E.coli
Gene Names	tst
Expression Region	41-234aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	37.9kDa
Protein Description	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

Delve into cutting-edge immunological research with our Recombinant *Staphylococcus aureus* tst. This product features Toxic shock syndrome toxin-1 (TSST-1), a potent exotoxin known for its involvement in toxic shock syndrome, one of the severe outcomes of *Staphylococcus aureus* infections. TSST-1 is recognized for its superantigenic properties, stimulating T-cell proliferation and cytokine release, which provides an exciting avenue for immunological and infectious disease research.

This recombinant protein covers the full length of the mature TSST-1, specifically the amino acid region from 41-234. It's expressed in *E.coli*, and it carries an N-terminal 6xHis-SUMO-tag for ease in purification and detection. Quality is assured, as the Recombinant *Staphylococcus aureus* tst shows a purity greater than 90%, as determined by SDS-PAGE. Depending on your research needs, the product comes as a liquid solution or as a lyophilized powder. This product is an excellent choice for research focusing on *Staphylococcus aureus* pathogenicity, superantigen behavior, and immune responses.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.