

# Recombinant Rickettsia tsutsugamushi TSA Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08554

**Protein Name:** Peroxiredoxin 2 (TSA)

**Aliases:** peroxiredoxin 2

**UniProt ID:** P37917

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P37917/entry>

**Species Source:** Orientia tsutsugamushi(Rickettsia tsutsugamushi)

**Expression System:** in vitro E.coli expression system

**Protein Length:** Full Length of Mature Protein (23-521aa)

**Molecular Weight:** 59.0 kDa

**Protein Tag:** N-terminal 10xHis-tagged

## 2. Amino Acid Sequence (23-521aa)

IEFDENSLECGPYAKVGIVGGVLSGVESARLDPADSEGKKHLPLIKGMPFGVTLAAG  
MTITPGVRAEISAMYLMNVKAEVELGKMGSDANTGTTADASAGVIRKHKKLTPPQP  
NIMPISIADRDIAVDIPNAAGQGNVDVRAAARIAWLKNYAGIDYYVPDSNNPQGRVW  
NPVLLNIPQGNPNPAGGGGRAAPAAFDILDHAQWRDVVVGITALSNANKPNVSAVK  
ILSDKISQIYADIKPFANVASVQISETPLPDSASVDQIQNKVQELNKVLEDVRESFDGF  
ILNAFAQPVRLNFQIPQVVQGGQQPQAAATAQEAAAAAIRALNDGENNGIIQLYK  
DLYKLQRNVALKKSMKQLGDELGVDQGGQEGGCSKDKKQSDTTAEEKKEGKKGK  
EIEFDLHMAVGQVKLYADLFTIDSFSVYAGIGAGLAYTHGKIDGKDIKAHTGMVGS  
LAGVAANVADGVYMDVDAGYLYSFSKIEEKYQMNAFVASAGIRYNF

## 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).



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

## 4. Storage Conditions

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 *Rickettsia tsutsugamushi* TSA full length of mature protein protein (23-521aa) expressed in in vitro *E.coli* expression system. The protein is with 10xHis tag at the N-terminus, which facilitates protein purification, detection and identification. TSA, also known as peroxiredoxin 2, 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.