

# Recombinant Human TSC1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08555

**Protein Name:** Tsc Complex Subunit Tuberous Sclerosis 1 Protein (TSC1)

**Aliases:** LAM; TSC; hamartin; TSC complex subunit tuberous sclerosis 1 protein

**UniProt ID:** Q92574

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q92574/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Partial (690-993aa)

**Molecular Weight:** 42.3 kDa

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

## 2. Amino Acid Sequence (690-993aa)

TLRDQLLLLLHNQLLYERFKRQQHALRNRLLLRKVIKAAALEEHNAAMKDQLKLQEK  
DIQMWKVSLQKEQARYNQLQEQRDTMVTKLHSQIRQLQHDREEFYNQSQELQTKL  
EDCRNMIAELRIELKKANNKVCHTELLLSQVSQKLSNSESVQQQMEFLNRQLLVLG  
EVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQRLDTSQKRILEL  
ESHLAKKDHLLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFELEILDLYGRL  
EKDGLLKKLEEEKAEAAEAAEERL

## 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

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the



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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 Human TSC1 partial protein (690-993aa) expressed in E.coli. The protein is with 10xHis tag at the N-terminus, which facilitates protein purification, detection and identification. TSC1, also known as LAM or TSC or hamartin, 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.