

# Recombinant human STAR protein

Catalog Number: ATGP1292

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

64-285aa

### UniProt No.

P49675

### NCBI Accession No.

NP\_000340.2

### Alternative Names

Steroidogenic acute regulatory protein mitochondrial, Steroidogenic acute regulatory protein, mitochondrial,

## PRODUCT SPECIFICATION

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### Molecular Weight

27.1 kDa (243aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

STAR, also known as steroidogenic acute regulatory protein, appears to mediate the rapid increase in pregnenolone synthesis stimulated by tropic hormones. It increases pregnenolone synthesis more than four-fold and a major STAR transcript of 1.6 kb is found in ovary and testis. During ongoing growth and differentiation of the follicle of the ovary, the immunoreactivity of it tends to shift from the granulosa cells of early antral follicles to the theca cell layers in the adult. Recombinant human STAR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH M>EETLYSDQE LAYLQQGEEA MQKALGILSN QEGWKKESQQ DNGDKVMSKV  
VPDVGKVFRL EVVVDQPMER LYEELVERME AMGEWNPVK EIKVLQKIGK DTFITHELAA EAAGNLVGPR DFVSVRCAKR  
RGSTCVLAGM ATDFGNMPEQ KGVIRAEHGP TCMVLHPLAG SPSKTKLTWL LSIDLKGWLP KSIINQVLSQ TQVDFANHLR  
KRLESHPAASE ARC

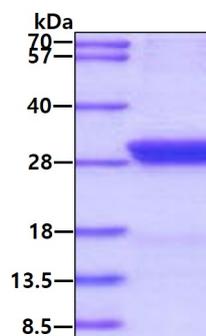
## General References

Borthwick F. et al. (2009) FEBS Lett. 583:1147-1153.

Mikhaylova I.V. et al. (2008) J. Endocrinol.199: 435-444.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.