

# Recombinant human CS protein

Catalog Number: ATGP2806

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

28-466aa

### UniProt No.

O75390

### NCBI Accession No.

NP\_004068

### Alternative Names

Citrate synthase mitochondrial precursor, Citrate synthase, mitochondrial precursor, CS - mitochondrial

## PRODUCT SPECIFICATION

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### Molecular Weight

51.4 kDa (462aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM 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

Citrate synthase (CS) is a Krebs tricarboxylic acid cycle enzyme that catalyzes the synthesis of citrate from oxaloacetate and acetyl coenzyme A. It is found in nearly all cells capable of oxidative metabolism. This protein is nuclear encoded and transported into the mitochondrial matrix, where the mature form is found. Recombinant human CS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

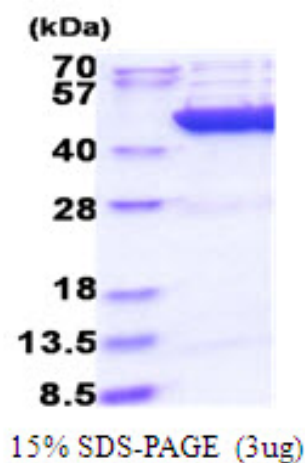
MGSSHHHHHH SSSLVPRGSH MGSASSTNLK DILADLIPKE QARIKTRFQQ HGKTVVGQIT VDMMYGGMRG MKGLVYETSV  
LDPDEGIRFR GFSIPECQKL LPKAKGGEEP LPEGLFWLLV TGHIPTEEQV SWLSKEWAKR AALPSHVVTM LDNFPTNLHP  
MSQLSAAVTA LNSESNFARA YAQGISRTKY WELIYEDSMD LIAKLPCVAA KIYRNLYREG SGIGAIDSNL DWSHNFTNML  
GYTDHQFTEL TRLYLTIHSD HEGGNVSAHT SHLVGSALSD PYLSFAAAMN GLAGPLHGLA NQEVLVWLTQ LQKEVGKDVS  
DEKLRDIWN TLNSGRVVPY YGHAVLRKTD PRYTCQREFA LKHLPNPDMF KLVAQLYKIV PNVLLEQGKA KNPWPNVDAH  
SGVLLQYYGM TEMNYTTLVLF GVSRALGVLA QLIWSRALGF PLERPMSMT EGLMKFVDSK SG

### General References

Choudhary C., Kumar C., et al. (2009) Science 325:834-840

## DATA

### SDS-PAGE



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