

# Recombinant human ASS1 protein

Catalog Number: ATGP0636

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-412aa

### UniProt No.

P00966

### NCBI Accession No.

NP\_000041

### Alternative Names

Argininosuccinate synthase, ASS, CTLN1, Argininosuccinate synthase

## PRODUCT SPECIFICATION

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### Molecular Weight

48.6 kDa (432aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl,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

The ASS1 is an enzyme called argininosuccinate synthase 1. This enzyme participates in the urea cycle, which is a sequence of chemical reactions that takes place in liver cells. The urea cycle processes excess nitrogen that is generated as the body uses proteins. The excess nitrogen is used to make a compound called urea, which is excreted from the body in urine. Recombinant human ASS1 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

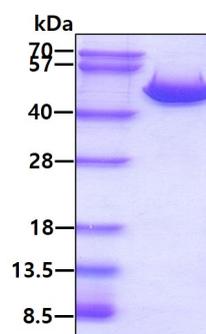
<MGSSHHHHHH SSGLVPRGSH> MSSKGSVVLA YSGGLDTSCI LVWLKEQGYD VIAYLANIGQ KEDFEEARKK  
ALKLGAKKVF IEDVSREFVE EFIWPAIQSS ALYEDRYLLG TSLARPCAR KQVEIAQREG AKYVSHGATG KGNDQVRFEL  
SCYSLAPQIK VIAPWRMPEF YNRFKGRNDL MEYAKQHGIPIVTPKNPWS MDENLMHISY EAGILENPKN QAPPGLYTKT  
QDPAKAPNTP DILEIEFKKG VPVKVTNVKD GTTHQTSLEL FMYLNEVAGK HGVGRIDIVE NRFIGMKSRLG IYETPAGTIL  
YHAHLDIEAF TMDREVRKIK QGLGLKFAEL VYTGFWHSPE CEFVRHCIAK SQERVEGKVQ VSVLKGQVYI LGRESPLSLY  
NEELVSMNVQ GDYEPTDATG FININSLRLK EYHRLQSKVT AK

## General References

Kobayashi K., et al. (1990) J Biol Chem. 265(19):11361-7

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.