

# Recombinant human SOCS-3 protein

Catalog Number: ATGP2589

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-225aa

### UniProt No.

O14543

### NCBI Accession No.

NP\_003946

### Alternative Names

Suppressor of cytokine signaling 3, CIS3, SSI3, ATOD4, Cish3, SSI-3, SOCS-3, MGC71791

## PRODUCT SPECIFICATION

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### Molecular Weight

29 kDa (262aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

SOCS3 is a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of SOCS3 is induced by various cytokines, including IL6, IL10, and interferon (IFN) -gamma. This protein can bind to JAK2 kinase, and inhibit the activity of JAK2 kinase. Studies of the mouse counterpart of this gene suggested the roles of this gene in the negative regulation of fetal liver hematopoiesis, and placental development. Recombinant human SOCS3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

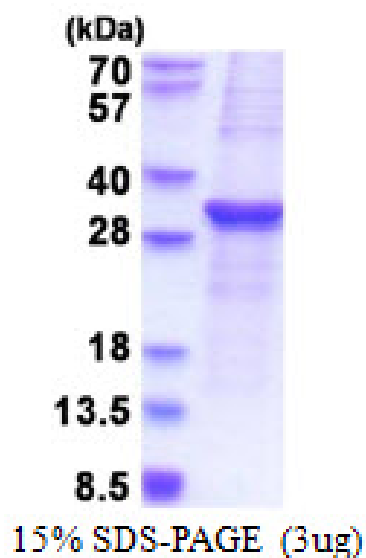
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSHMVT HSKFPAAGMS RPLDTSRLRK TFSSKSEYQL  
VVNAVRKLQE SGFYWSAVTG GEANLLLSAE PAGTFLIRDS SDQRHFFTLS VKTQSGTKNL RIQCEGGSFS LQSDPRSTQP  
VPRFDCVLKL VHHYMPPPGA PSFSPPTPEP SSEVPEQPSA QPLPGSPRRR AYYIYSGGEK IPLVLSRPLS SNVATLQHLC  
RKTVNGHLDS YEKVTQLPGP IREFLDQYDA PL

### General References

McKay BR, Ogborn DI, et al. (2013). Am J Physiol Cell Physiol. 304(8):C717-28.  
Molavi O, Wang P, et al. (2013). Br J Haematol. 161(3):348-56.

## DATA

### SDS-PAGE



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