# Recombinant human SOCS-3 protein

Catalog Number: ATGP2589

## PRODUCT INFORMATION

**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

**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**
> 85% 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

**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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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### Amino acid Sequence

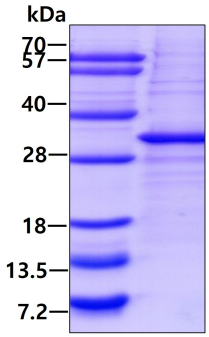
<MRGSHHHHHH GMASMTGGQQ> MGRDLYDDDD KDRWGSHMVT HSKFPAAGMS RPLDTSLRLK TFSSKSEYQL VVNAVRKLQE SGFYWSAVTG GEANLLLSAE PAGTFLIRDS SDQRHFFTLS VKTQSGTKNL RIQCEGGSFS LQSDPRSTQP VPRFDCVLKL VHHYMPPPGA PSFPSPPTEP SSEVPEQPSA QPLPGSPPRR AYYIYSGGEK IPLVLSRPLS SNVATLQHLC RKTVNGHLDS YEKVTQLPGP IREFLDQYDA PL

### 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.