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
> 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

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

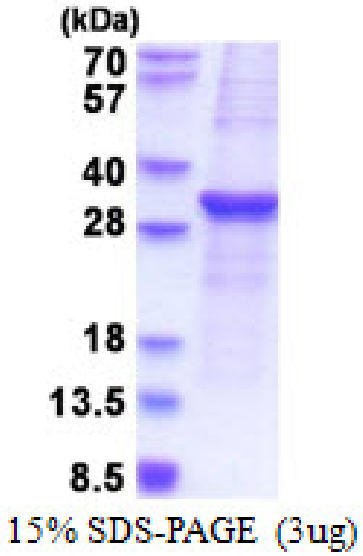
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMVT HSKFPAAGMS RPLDTSLRLK TFSSKSEYQL VVNAVRKLQE SGFYWSAVTG GEANLLLSAE PAGTFLIRDS SDQRHFFTLS VKTQSGTKNL RIQCEGGSFS LQSDPRSTQP VPRFDCVLKL VHHYMPPPGA PSFPSPPTEP SSEVPEQPSA QPLPGSPPRR AYYIYSGGEK IPLVLSRPLS SNVATLQHLC RKTVNGHLDS YEKVTQLPGP IREFLDQYDA PL

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.