Suppressor of cytokine signaling 1 Recombinant Protein | SOCS1 recombinant protein

Recombinant Human Suppressor of cytokine signaling 1

CATALOG #	HOST
AAA18689	**E Coli or Yeast or Baculovirus or Mammalian Cell**

PRODUCT SYNONYMS

Suppressor of cytokine signaling 1; Recombinant Human Suppressor of cytokine signaling 1; JAK-binding protein; JABSTAT-induced STAT inhibitor 1; SSI-1; Tec-interacting protein 3; TIP-3; SOCS1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-211aa; Full Length
Sequence	MVAHNQVAAD NAVSTAAEPR RRPEPSSSSS SSPAAPARPR PCPAVPAPAP GDTHFRTFRS HADYRRITRA SALLDACGFY WGPLSVHGAH ERLRAEPVGT FLVRDSRQRN CFFALSVKMA SGPTSIRVHF QAGRFHLDGS RESFDCLFEL LEHYVAAPRR MLGAPLRQRR VRPLQELCRQ RIVATVGREN LARIPLNPVL RDYLSSFPFQ I
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES

SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SOCS1 recombinant protein	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein-tyrosine activity. Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival. Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Ses to recognize JAK2. SOCS1 appears to be a negative regulator in IGF1R signaling pathway.
Product Categories/Family for SOCS1 recombinant protein	Immunology

References	Cloning and functional analysis of new members of STAT induced STAT inhibitor (SSI) family SSI-2 and SSI-3.Minamoto S., Ikegame K., Ueno K., Narazaki M., Naka T., Yamamoto H., Matsumoto T., Saito H., Hosoe S., Kishimoto T.Biochem. Biophys. Res. Commun. 237:79-83(1997) SOCS-1/JAB/SSI-1 can bind to and suppress Tec protein-tyrosine kinase.Ohya K., Kajigaya S., Yamashita Y., Miyazato A., Hatake K., Miura Y., Ikeda U., Shimada K., Ozawa K., Mano H.J. Biol. Chem. 272:27178-27182(1997) A family of cytokine-inducible inhibitors of signaling.Starr R., Willson T.A., Viney E.M., Murray L.J.L., Rayner J.R., Jenkins B.J., Gonda T.J., Alexander W.S., Metcalf D., Nicola N.A., Hilton D.J.Nature 387:917-921(1997) Radiation hybrid and cytogenetic mapping of SOCS1 and SOCS2 to chromosomes 16p13 and 12q, respectively.Yandava C.N., Pillari A., Drazen J.M.Genomics 61:108-111(1999) Schlueter G.A new protein containing an SH2 domain that inhibits JAK kinases.Endo T.A., Masuhara M., Yokouchi M., Suzuki R., Sakamoto H., Mitsui K., Matsumoto A., Tanimura S., Ohtsubo M., Misawa H., Miyazaki T., Leonor N., Taniguchi T., Fujita T., Kanakura Y., Komiya S., Yoshimura A.Nature 387:921-924(1997) Interaction of human suppressor of cytokine signaling (SOCS) -2 with the insulin-like growth factor-I receptor.Dey B.R., Spence S.L., Nissley P., Furlanetto R.W.J. Biol. Chem. 273:24095-24101(1998) The SOCS box of SOCS-1 accelerates ubiquitin-dependent proteolysis of TEL-JAK2.Kamizono S., Hanada T., Yasukawa H., Minoguchi S., Kato R., Minoguchi M., Hattori K., Hatakeyama S., Yada M., Morita S., Kitamura T., Kato H., Nakayama K.I., Yoshimura A.J. Biol. Chem. 276:12530-12538(2001) Socs-1 inhibits TEL-JAK2-mediated transformation of hematopoietic cells through inhibition of JAK2 kinase activity and induction of proteasome-mediated degradation.Frantsve J., Schwaller J., Sternberg D.W., Kutok J., Gilliland D.G.Mol. Cell. Biol. 21:3547-3557(2001) SOCS proteins negative regulators of cytokine signaling.Krebs D.L., Hilton D.J.Stem Cells 19:378-387(2001) Interaction of Axl receptor tyrosine kinase with C1-TEN, a novel C1 domain-containing protein with homology to tensin.Hafizi S., Alindri F., Karlsson R., Dahlbaeck B.Biochem. Biophys. Res. Commun. 299:793-800(2002) Cytokine signaling in the brain putting a SOCS in it?Wang J., Campbell I.L.J. Neurosci. Res. 67:423-427(2002) Suppressors of cytokine signaling (SOCS) 1 and SOCS3 interact with and modulate fibroblast growth factor receptor signaling.Ben-Zvi T., Yayon A., Gertler A., Monsonego-Ornan E.J. Cell Sci. 119:380-387(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507233
NCBI GeneID	8651
NCBI Accession #	NP_003736.1
NCBI GenBank Nucleotide #	NM_003745.1
UniProt Accession #	O15524; O15097; Q9NSA7
Molecular Weight	25.6 kDa
NCBI Official Full Name	suppressor of cytokine signaling 1
NCBI Official Synonym Full Names	suppressor of cytokine signaling 1
NCBI Official Symbol	SOCS1
NCBI Official Synonym Symbols	JAB; CIS1; SSI1; TIP3; CISH1; SSI-1; SOCS-1
NCBI Protein Information	suppressor of cytokine signaling 1
UniProt Protein Name	Suppressor of cytokine signaling 1
UniProt Gene Name	**SOCS1**
UniProt Synonym Gene Names	SSI1; TIP3; SOCS-1; JAB; SSI-1; TIP-3
UniProt Entry Name	SOCS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/socs1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/18689