

Recombinant Human Suppressor Of Cytokine Signaling 3, GST-tagged

Cat. No. SOCS3-6941H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SOCS3 protein was expressed as GST-tagged fusion protein by <i>in vitro</i> wheat germ.
Species	Human
Source	Wheat Germ
Description	SOCS3 is a protein that in humans is encoded by the SOCS3 gene. This gene encodes 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 this gene is induced by various cytokines, including IL6, IL10, and interferon (IFN)-gamma. The protein encoded by this gene can bind to JAK2 kinase, and inhibit the activity of JAK2 kinase.
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Sequence	MVTHSKFPAAGMSRPLDTSLRLKTFSSKSEYQLVVNAVRLQESGFYWSAVTGGEA NLLLSAEPAGTFLIRDSSDQRHFFTL SVKTQSGTKNLRIQCEGGSFSLQSDPRSTQP VPRFDCVLKLVHHYMPPPGAPSFPSPTPEPSSEVPEQPSAQPLPGSPRRRAYYIYS GGEKIPLVLSRPLSSNVATLQHLCRKT VNGHLDSYEKVTQLPGPIREFLDQYDAPL
Preparation Method	<i>in vitro</i> wheat germ expression system

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Molecular Weight	50.49 kDa
Purification	GlutathioneSepharose 4 Fast Flow.
Buffer	50 mMTris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage	Storeat -80°C. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	SOCS3 suppressor of cytokine signaling 3 [Homosapiens]
Official Symbol	SOCS3
Synonyms	SOCS3;suppressor of cytokine signaling 3; CIS3; SSI3; ATOD4; Cish3;SSI-3; SOCS-3; MGC71791; CIS-3; STAT-induced STAT inhibitor 3; cytokine-inducedSH2 protein 3; cytokine-inducible SH2 protein 3
Gene ID	9021
mRNA Refseq	NM_003955
Protein Refseq	NP_003946
MIM	604176
UniProt ID	O14543
Chromosome Location	17q25.3
Pathway	ATF-2 transcription factor network; Adipocytokinesignaling pathway; Class I MHC

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mediated antigen processing & presentation; Cytokine Signaling in Immune system; ECS complex; EGFR1 Signaling Pathway; EPO signaling pathway; Growth hormone receptor signaling; Herpes simplex infection; IL-2 Signaling Pathway; IL-3 Signaling Pathway; IL-4 Signaling Pathway; IL-6 Signaling Pathway; IL-9 Signaling Pathway

Function	protein kinase inhibitor activity
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PDB rendering based on	2bbu.
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