

Recombinant Human CISH Protein (Met1-Leu258), His tagged

Cat. No. CISH-1733H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CISH (Met1-Leu258) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Leu258
Description	Suppressor of cytokine signaling 3, also known as SOCS-3, Cytokine-inducible SH2 protein 3, CIS-3, STAT-induced STAT inhibitor 3, SOCS3 and CIS3, is a protein which is widely expressed with high expression in heart, placenta, skeletal muscle, peripheral blood leukocytes, fetal and adult lung, and fetal liver and kidney. SOCS3/CIS3 contains oneSH2 domain and oneSOCS box domain. SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3/CIS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. SOCS3/CIS3 inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp13, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. SOCS3/CIS3 suppresses fetal liver erythropoiesis. It regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. SOCS3/CIS3 regulates IL-6 signaling. SOCS3/CIS3 interacts with multiple activated proteins of the tyrosine kinase signaling pathway including IGF1 receptor, insulin receptor and JAK2. SOCS3/CIS3 could be used as a possible therapeutic agent for

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	treating rheumatoid arthritis.
Form	Lyophilized powder/frozen liquid
Molecular Mass	30.29 kDa
Purity	>90% as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CISH cytokine inducible SH2-containing protein [Homo sapiens (human)]
Official Symbol	CISH
Synonyms	CISH; cytokine inducible SH2-containing protein; cytokine-inducible SH2-containing protein; CIS; CIS 1; G18; SOCS; suppressor of cytokine signaling; cytokine-inducible inhibitor of signaling type 1B; CIS-1; BACTS2;
Gene ID	1154

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mRNA Refseq	NM_013324
Protein Refseq	NP_037456
MIM	602441
UniProt ID	Q9NSE2

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