Datasheet for ABIN7317579

SOCS3 Protein (TRX tag,His tag)

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Overview

Quantity:	50 µg
Target:	SOCS3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOCS3 protein is labelled with TRX tag,His tag.

Product Details

Purpose:	Recombinant Human SOCS3/CIS3 Protein (His & Trx Tag)
Sequence:	Met 1-Leu 225
Characteristics:	A DNA sequence encoding the human SOCS3 (O14543) (Met 1-Leu 225) was fused with a Trx and a polyhistide tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	SOCS3
Alternative Name:	SOCS3/CIS3 (SOCS3 Products)
Background:	Background: 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 one SH2 domain and

Target Details

	one SOCS 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 gp130, 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 treating rheumatoid arthritis. Synonym: ATOD4;CIS3;Cish3;SOCS-3;SSI-3;SSI3
Molecular Weight:	41.9 kDa
UniProt:	O14543
Pathways:	JAK-STAT Signaling, Response to Growth Hormone Stimulus, Hepatitis C

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.