

Datasheet for ABIN6239899

**SOCS3 Protein (AA 1-225) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	SOCS3
Protein Characteristics:	AA 1-225
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This SOCS3 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

## Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	Suppressor of cytokine signaling 3 (SOCS3) is a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signaling (SOCS), family that negatively regulates cytokine signal transduction. SOCS3 is feedback inhibitors of the Janus kinase (JAK) and signal transducer and activator of transcription (STAT) signaling pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. SOCS3 also can bind to JAK2 kinase inhibits its kinase activity and nhibits insulin signaling in adipose tissue and the liver. Besides, Glycoprotein 130 (gp130) has been identified as an interactor of SOCS3, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse SOCS3 and recombinant mouse gp130. Briefly, SOCS3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were

## Product Details

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then transferred to SOCS3-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SOCS3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of of SOCS3 and gp130 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of SOCS3 with gp130.

## Target Details

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Target:	SOCS3
Alternative Name:	Suppressors Of Cytokine Signaling 3 (SOCS3) ( <a href="#">SOCS3 Products</a> )
Background:	Alternative Names: ATOD4, CIS3, Cish3, MGC71791, SOCS-3, SSI-3, SSI3, Cytokine-inducible SH2 protein 3, STAT-induced STAT inhibitor 3
Molecular Weight:	26kDa
UniProt:	<a href="#">O35718</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Hepatitis C</a>

## Application Details

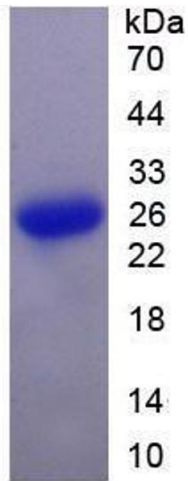
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Application Notes:	Isoelectric Point: 8.7
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



**Image 1.**