Datasheet for ABIN3131672

SOCS1 Protein (AA 1-212) (His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	SOCS1
Protein Characteristics:	AA 1-212
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOCS1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MVARNQVAAD NAISPAAEPR RRSEPSSSSS SSSPAAPVRP RPCPAVPAPA PGDTHFRTFR SHSDYRRITR TSALLDACGF YWGPLSVHGA HERLRAEPVG TFLVRDSRQR NCFFALSVKM ASGPTSIRVH FQAGRFHLDG SRETFDCLFE LLEHYVAAPR RMLGAPLRQR RVRPLQELCR QRIVAAVGRE NLARIPLNPV LRDYLSSFPF QIHHHHHH
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Mouse Socs1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein

Product Details

	cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	The protein is purified from the cleared cell lysate using His-tag capture materials.Eluate fractions are analyzed by SDS-PAGE.Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SOCS1
Alternative Name:	Socs1 (SOCS1 Products)
Background:	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 (By similarity). Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia 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-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize

Target Details

	JAK2 (By similarity). SOCS1 appears to be a negative regulator in IGF1R signaling pathway (By similarity). {ECO:0000250, ECO:0000269|PubMed:10064597, ECO:0000269|PubMed:15169905}.
Molecular Weight:	24.7 kDa Including tag.
UniProt:	O35716
Pathways:	JAK-STAT Signaling, Interferon-gamma Pathway, TLR Signaling, Response to Growth Hormone Stimulus

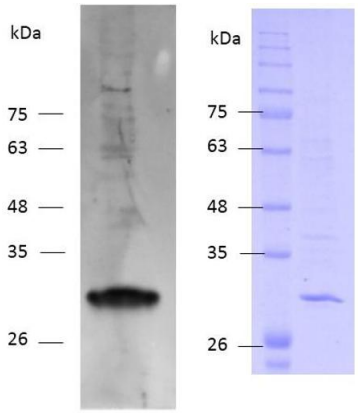
Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

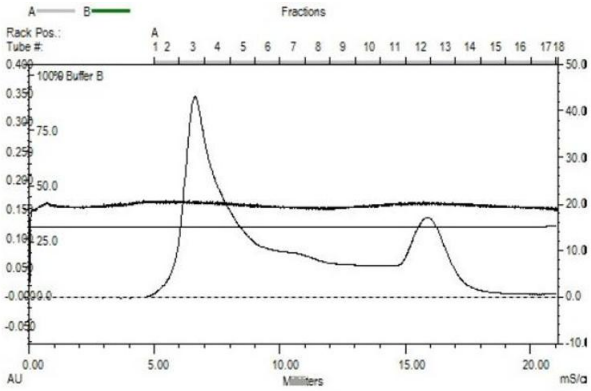
Format:	Liquid
Buffer:	20 mM Hepes, pH 7.4, 100 mM NaCl
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



SOCS1 (AA 1-212);
fraction 12 - 13

Image 2.



SOCS1 (AA 1-212), gel filtration
Superdex 200; fraction 12 - 13

Image 3.