

# Datasheet for ABIN3131674

# SOCS3 Protein (AA 1-225) (Strep Tag)



### Overview

Quantity:	250 μg
Target:	SOCS3
Protein Characteristics:	AA 1-225
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOCS3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

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Product Details	
Brand:	AliCE®
Sequence:	MVTHSKFPAA GMSRPLDTSL RLKTFSSKSE YQLVVNAVRK LQESGFYWSA VTGGEANLLL
	SAEPAGTFLI RDSSDQRHFF TLSVKTQSGT KNLRIQCEGG SFSLQSDPRS TQPVPRFDCV
	LKLVHHYMPP PGTPSFSLPP TEPSSEVPEQ PPAQALPGST PKRAYYIYSG GEKIPLVLSR
	PLSSNVATLQ HLCRKTVNGH LDSYEKVTQL PGPIREFLDQ YDAPL
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified in one-step affinity chromatography
	These proteins are normally active (enzymatically functional) as our customers have

reported (not tested by us and not guaranteed).

• 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 try to ensure that you receive soluble 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 cannot be expressed or purified.

#### Expression System:

- · ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- · During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- · The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	

Target:	SOCS3
Alternative Name:	Socs3 (SOCS3 Products)
Background:	Suppressor of cytokine signaling 3 (SOCS-3) (Cytokine-inducible SH2 protein 3) (CIS-3) (Protein

EF-10),FUNCTION: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including IL6ST/gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors (PubMed:10821852, PubMed:12754505, PubMed:9889194). Binding to JAK2 inhibits its kinase activity and regulates IL6 signaling (PubMed:12754505, PubMed:9889194). Suppresses fetal liver erythropoiesis (PubMed:10490101). Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells (PubMed:12847520). Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity). {ECO:0000250|UniProtKB:014543, ECO:0000269|PubMed:10490101, ECO:0000269|PubMed:10821852, ECO:0000269|PubMed:12754505, ECO:0000269|PubMed:12847520, ECO:0000269|PubMed:9889194}.

Molecular Weight:

24.8 kDa

UniProt:

035718

Pathways:

JAK-STAT Signaling, Response to Growth Hormone Stimulus, Hepatitis C

### **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 guarantee though.

Comment:

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Restrictions:

For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.  Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months