

# MATERIAL DATA SHEET

## **Recombinant Human SOCS-3**

## Cat. # E3-604

The Suppressor of Cytokine Signaling (SOCS) protein family consists of 8 members including SOCS1-SOCS7, and CIS (cytokine-inducible SH2-containing protein). SOCS proteins are a component of the negative feedback system that attenuates cytokine signaling pathways, acting principally by inhibiting the activation of JAK/STAT proteins. Containing 95% identity with its rat and mouse orthologs, human SOCS3 is a 225 amino acid protein containing an N-terminal kinase inhibitory region, a central SH2 domain, and a C-terminal SOCS domain. The SOCS domain mediates association of SOCS3 with the Elongin B/C adaptor complex of a CUL2/CUL5 ECS (Elongin BC-CUL2/5-SOCS-box) E3 Ubiquitin Ligase. SOCS3 is the probable substrate recognition component of such ligases and may play a role in the ubiquitination of proteins including IL6 Receptor β subunit (gp130), Insulin Receptor, Erythropoietin Receptor, leptin receptors and others.

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<b>Product</b>	Intorm	ation

**Quantity:** 25 μg

**MW:** 25 kDa

**Source:** E. coli-derived human SOCS-3 protein

Accession # O14543

Stock: X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol,

1 mM DTT

**Purity:** >90%, by SDS-PAGE under reducing conditions and visualized by Colloidal

Coomassie® Blue stain.

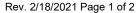
**Use & Storage** 

**Use:** Typical protein concentration for use in vitro will depend on experimental conditions.

Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

• 60 months from date of receipt, -70 °C as supplied.

• 3 months, -70 °C under sterile conditions after opening.







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### Literature

### **References:**

- 1. Kamura, T. et al. (2004) Genes Dev. 18: 3055
- 2. Liu, S. et al. (2021) Front Cell Dev Biol DOI: 10.3389/fcell.2021.629932
- 3. Sasaki A., et al. (1999) Genes Cells 4:339
- 4. Yamamoto K., et al. (2003) Biochem. Biophys. Res. Commun. 310:1188

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