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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.

Product Information	
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:

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2. Liu, S. et al. (2021) Front Cell Dev Biol DOI: 10.3389/fcell.2021.629932
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