

SOCS1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71785
Synonyms:	CISH 1; CISH1; Cytokine inducible SH2 protein 1; JAB; JAK binding protein; JAK-binding protein; Janus kinase binding protein ; SOCS 1; TEC interacting protein 3; Tec-interacting protein 3; TIP 3
Species:	Human
Source:	P. pastoris
Accession:	O15524 (1M-2111)
Gene ID:	8651
Molecular Weight:	Approximately 25.6 kDa

PROPERTIES

AA Sequence	<p>M V A H N Q V A A D N A V S T A A E P R R R P E P S S S S S S S P A A P A R P R</p> <p>P C P A V P A P A P G D T H F R T F R S H A D Y R R I T R A S A L L D A C G F Y</p> <p>W G P L S V H G A H E R L R A E P V G T F L V R D S R Q R N C F F A L S V K M A</p> <p>S G P T S I R V H F Q A G R F H L D G S R E S F D C L F E L L E H Y V A A P R R</p> <p>M L G A P L R Q R R V R P L Q E L C R Q R I V A T V G R E N L A R I P L N P V L</p> <p>R D Y L S S F P F Q I</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>SOCS1 Protein is an essential negative regulator of type I and type II interferon (IFN) signaling, along with other cytokines such as IL2, IL4, IL6, and leukemia inhibitory factor (LIF). It downregulates cytokine signaling by inhibiting the JAK/STAT pathway, binding to JAK proteins and IFNGR1 to inhibit their kinase activity. Additionally, SOCS1 suppresses Tec protein-tyrosine activity in vitro and plays a role in regulating IFN-gamma (IFNG)-mediated sensory neuron survival. It is also a probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex, contributing to the ubiquitination and subsequent proteasomal degradation of target proteins through protein modification.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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