

Recombinant Human Suppressor of cytokine signaling 1(SOCS1)

Catalog No: #AP70795

Package Size: #AP70795-1 20ug #AP70795-2 100ug #AP70795-3 1mg

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Description

Product Name	Recombinant Human Suppressor of cytokine signaling 1(SOCS1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-211aaSequence Info:Full Length
Other Names	JAK-binding protein ;JABSTAT-induced STAT inhibitor 1 ;SSI-1Tec-interacting protein 3 ;TIP-3
Accession No.	O15524
Calculated MW	27.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTFRSHADYRRITRASA LLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFALSVKMASGPTSIRVHFQAGRFLDGSRESF DCLFELLEHYVAAPRRMLGAPLRQRRVRPLQELCRQIVATVGRENLARIPLNPVLRDYLSSFPFQI
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

SOCS family proteins form part of a classical negative feedback syst 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. 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 ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Ses to recognize JAK2. SOCS1 appears to be a negative regulator in IGF1R signaling pathway.

References

Suppressors of cytokine signaling (SOCS) 1 and SOCS3 interact with and modulate fibroblast growth factor receptor signaling.Ben-Zvi T., Yayon A., Gertler A., Monsonogo-Ornan E.J. Cell Sci. 119:380-387(2006)Research Topic:Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.