

Recombinant Mouse SOCS5 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51173

Size: 10ug, 100ug

Protein Name: Suppressor of cytokine signaling 5 (SOCS-5) (Cytokine-inducible SH2-containing protein 5)

Synonym: Socs5, Cish5

UniProt ID: O54928

UniProt Link: www.uniprot.org/uniprotkb/O54928/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 536 AA

Molecular Weight: 61 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDKVGKMWNNLKYRCQNLFSHEGGSRNENVEMNPNRCPVKEKSISLGEAAPQQESSPLRENV
ALQLGLSPSKTFSRRNQNCAAEIPQVVEISIEKDSGATPGTRLARRDSYSRHAPWGGKKKHSCSTK
TQSSLDTEKKFGRTRSGLRERRRYGVSSMQDMDSVSSRAVGSRLRQLQDTVGLCFPMRTYS
KQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHLIKQHTAPVSPHSTFFDTFDPSLVSTED
EEDRLRERRRRLSIEEGVDPPPNAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDGSAIPQT
NCDSEEDSTTLCLQSRQKQRQVSGDASHVSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWG
VMDRYEAEALL EGKPEGTFLLRDSAQEDYLFVSFRRYNRSLHARIEQWNHNFSDAHDPCV
FHSSTVTGLLEHYKD PSSCMFFEPLLTISLNRTFPFSLQYICRAVICRCTTYDGIDGLPLPS
MLQDFLKEYHYKQKVRVRWLE REPVKAK

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Suppressor of cytokine signaling 5 (SOCS-5) (Cytokine-inducible SH2-containing protein 5) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. May be a 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. Inhibits for instance EGF signaling by mediating the degradation of the EGF receptor/EGFR. Involved in the regulation of T-helper cell differentiation by inhibiting of the IL4 signaling pathway which promotes differentiation into the Th2 phenotype. Can also partially inhibit IL6 and LIF signaling.

Subcellular Localization: N/A

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.