

Recombinant Rat CISH Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52684

Size: 10ug, 100ug

Protein Name: Cytokine-inducible SH2-containing protein (CIS) (CIS-1) (Suppressor of cytokine signaling) (SOCS)

Synonym: Cish

UniProt ID: O70512

UniProt Link: www.uniprot.org/uniprotkb/O70512/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 256 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

VLCVQGSCPLLVEIQGRPLWAQSLELPGPAMQPLPTGAFPEEVTEETPVQSENEPKVLDPEGDL
LCIAKTFSYLRESGWYWGSITASEARQHLQKMPEGTFVLVRDSTHPSYLFTLSVKTTTRGPTNVRIEYA
DSSFRLDSNCLSRPRILAFPDVSVLVQHYVASCTADTRSDSPDPAPTPALPVSKPDAPGDPVLPPIVA
TAVHLKLVQPFVRRSSARSLQHLCLVINRLVTDVDCLPLPRRMADYLRQYPFQL

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 Cytokine-inducible SH2-containing protein (CIS) (CIS-1) (Suppressor of cytokine signaling) (SOCS) 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. CIS is involved in the negative regulation of cytokines that signal through the JAK-STAT5 pathway such as erythropoietin, prolactin and interleukin 3 (IL3) receptor. Inhibits STAT5 trans-activation by suppressing its tyrosine phosphorylation (By similarity). 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 (By similarity).

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.