

CISH Protein, Human, Recombinant (GST)

General Information

Synonyms:	Protein G18;Suppressor of cytokine signaling (SOCS);CIS-1;G18;CISH;CIS;Cytokine-inducible SH2-containing protein
Protein Construction:	1-258 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9NSE2
Molecular Weight:	55.7 kDa (predicted)
AA Sequence:	MVLCVQGPRLLAVERTGQRPLWAPSLELPKPVMPQPLPAGAFLEEVAEGTPAQTESEPKVLDPEEDLLCIAKT FSYLRESGWYWGSIASEARQHLQKMPGTFLLVRDSTHPSYLFVTKTRGPTNVRIEYADSSFRLDSNCLSR PRILAFPDVVSLVQHYVASCTADTRSDSPDPAPTALPMPKEDAPSDPALPAPPATAVHLKLVQPFVRRSSA RSLQHLCLVINRLVADVDCLPLPRRMADYLRQYPFQL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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

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phosphorylation. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481