

IL-11 Protein, Human, Recombinant (CHO)

General Information

Synonyms:	AGIF;IL11;interleukin 11;IL-11
Protein Construction:	Pro22-Leu199
Species:	Human
Expression Host:	CHO Cells
Accession:	P20809-1
Molecular Weight:	~23 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 5.0 ng/ml, measured in a proliferation assay using TF-1 cells.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1α-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 has multiple effects on both hematopoietic and non-hematopoietic cells. Many of the biological effects described for IL-11 overlap with those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell-dependent development of specific immunoglobulin-secreting B cells.

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