

Catalog No.: RP00050 **Recombinant** **1 Publications**

Species	Gene ID	Swiss Prot
Human	3589	P20809

No tag

IL11:AGIF:IL-11

Source <i>E. coli</i>	Purification ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
19.14 kDa	21 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μ m filtered solution of 20mM Tris, 150mM NaCl, pH 8.0. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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The protein is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). This cytokine is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells.

Recombinant Human IL-11 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Pro22-Leu199) of human IL-11 (Accession #NP_000632.1) fused with an initial Met at the N-terminus.

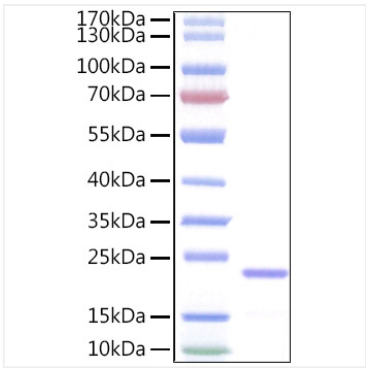
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 1.3-5 ng/mL, corresponding to a specific activity of 2×10⁵-7.69×10⁵units/mg.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

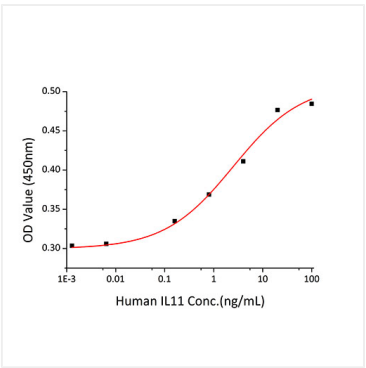
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IL-11 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant human IL11 promotes the proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 1.3-5ng/mL, corresponding to a specific activity of 2×10⁵-7.69×10⁵units/mg.