

Recombinant Human IL-11 Protein

Catalog No.: RP00050 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3589	P20809

Tags

No tag

Synonyms

IL11;AGIF;IL-11

Product Information

Source	Purification
<i>E. coli</i>	> 97% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

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

Reconstitution

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.

Contact

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Background

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.

Basic Information

Description

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.

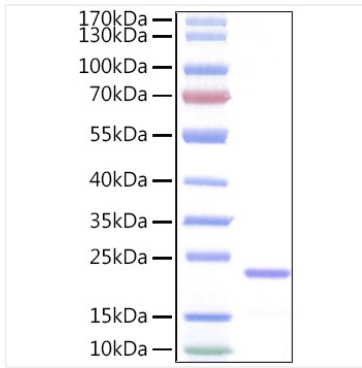
Bio-Activity

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.

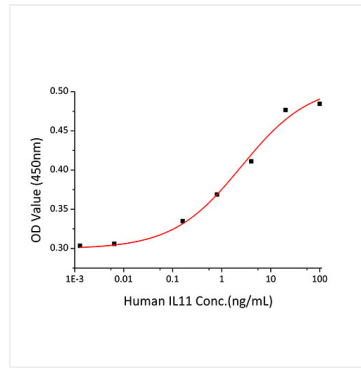
Storage

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



Active Recombinant Human IL-11 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 21 kDa.



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 2×10^2 - 7.69×10^5 units/mg.