

Recombinant Human IL-11 Protein

Catalog No.: RP00050

Sequence Information

Species **Gene ID**
Human 3589

Swiss Prot **Tags**
P20809 No tag

Synonyms
IL11,AGIF,IL-11

Product Information

Source **Purification**
E. coli ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
19.14 kDa 21 kDa

Endotoxin
< 1 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.

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.

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 2×10⁵–7.69×10⁵ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

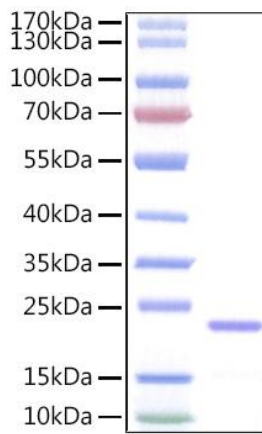
Contact

☎ | 400-999-6126

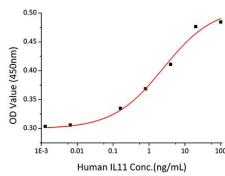
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Validation Data



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 ED_{50} for this effect is 1.3-5ng/mL, corresponding to a specific activity of 2×10^5 – 7.69×10^5 units/mg.