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IL 11 Human

Interleukin-11 Human Recombinant
CYK0240

Product Overview

Name	IL 11 Human
Description	
Interleukin-11 Human Recombinant	
Accession (Primary)	P20809
Synonyms	
AGIF, Adipogenesis inhibitory factor, IL-11.	
Introduction	
IL11 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). IL-11 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.	
Stability	
Lyophilized Interleukin-11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Pro-Pro-Pro-Gly. N-terminal methionine has been completely removed enzymatically.	
Biological Activity	
The ED50 as determined by the dose-dependant stimulation of the proliferation of murine 7TD1 was found to be <	

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10ng/ml, corresponding to a Specific Activity of 100,000 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Interleukin 11 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Models for Prediction of Factor VIII Half-Life in Severe Haemophiliacs: Distinct Approaches for Blood Group O and Non-O Patients Publication: PloS one 4.8 (2009): e6745. Link: IL 11 prospec publication

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.95 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-11 as a Reference Standard.

Precautions

IL 11 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P20809)