
Product Data Sheet

Product Name: IL 11 Human
 Cat. No.: GP20546
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	AGIF; Adipogenesis inhibitory factor; Oprelvekin; IL-11.		
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.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 11 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.		

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.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of the proliferation of murine 7TD1 was found to be < 10ng/ml, corresponding to a Specific Activity of 100,000 IU/mg.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

Interleukin-11 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 179 amino acids and having a molecular mass of 19256.29 Dalton. The IL-11 is purified by proprietary chromatographic techniques.

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