



## rmlL-6

recombinant murine Interleukin-11

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Product	Cat#	Package size
rmlL-6	C6239.0002	2µg
rmlL-6	C6239.0010	10µg
rmlL-6	C6239.1000	1mg

**Synonyms:** IFN-b2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, IL-6, Interleukin HP-1, B-cell hybridoma growth factor.

### Introduction:

Interleukin-6 is a potent pro-inflammatory cytokine primarily produced by activated T cells and an assortment of other cells including endothelial cells and macrophages. IL-6 affects B and T lymphocytes and has been shown to have a role in host defense, acute phase reactions, immune responses and hematopoiesis.

Rec. murine Interleukin-6 is produced in E.Coli as a single, non-glycosylated polypeptide chain of 187 amino acids and a molecular mass of 21709 Dalton.

**Purity:** Greater than 95.0%, determined by:  
RP-HPLC chromatography  
SDS-PAGE (silver stained)

**Source:** E. Coli

### Amino acid sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Thr-Ser.

**Biological Activity:** The ED50 as determined by the dose-dependent induction of 7TD1 cell proliferation, is 0.018ng/mL corresponding to a Specific Activity of 55MIU/mg.

**Solubility:** It is recommended to reconstitute the lyophilized Interleukin-6 in 10mM HCl to 0.1-1.0mg/mL to regain full activity, and can then be further diluted to other aqueous solutions.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/mL) solution containing no additives.

### Stability

Lyophilized IL-6 although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution IL-6 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 from repeated freeze-thaw cycles.**

**Reference:** Interleukin-10 overexpression in macrophages suppresses atherosclerosis in hyperlipidemic mice. The FASEB Journal vol. 24 no. 8 2869-2880.

### Usage

The Genaxxon bioscience IL-6 is offered for research, laboratory or further manufacturing purposes only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.