

## Active Recombinant Mouse Il11 Protein

Cat. No. II11-182I Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Il11 Protein without tag was expressed in HEK 293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Interleukin-11 (IL-11) is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1<math>\alpha</math>-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell.</p>
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 3 ng/mL, measured in a cell proliferation assay using T11 cells.
<b>Molecular Mass</b>	~21 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	GPPAGSPRVSSDPRADLDSAVLLTRSLADTRQLAAQMRDKFPADGDHSLDSLPTL AMSAGTLGSLQLPGVLRRLRVDLMSYLRHVQWLRRAGGPSLKTLEPELGALQARLE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RLLRRLQLLMSRLALPQAAPDQPVIPLGPPASAWGSIRAAHAILGGLHLTLDWAVRG  
LLLLKTRL

**Endotoxin** < 0.2 EU/μg, determined by LAL method.

**Purity** > 95% as analyzed by SDS-PAGE and HPLC.

**Storage** Lyophilized recombinant Murine Interleukin-11 (IL-11) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Murine Interleukin-11 (IL-11) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

**Gene Name** [IL11 interleukin 11 \[ Mus musculus \]](#)

**Official Symbol** [IL11](#)

**Synonyms** IL11; interleukin 11; interleukin-11; IL-11;

**Gene ID** [16156](#)

**mRNA Refseq** [NM\\_008350](#)

**Protein Refseq** [NP\\_032376](#)

**UniProt ID** [P47873](#)

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