

# Recombinant Mouse interleukin 11

**Cat. No.** II11-586M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	RecombinantII11 is a disulfide-linked monomer protein consisting of 179 amino acidresidue subunits, and migrates as an approximately 19 kDa protein undernon-reducing conditions and reducing conditions in SDS-PAGE, and waslyophilized from a 0.2 µm filtered PBS solution.
<b>Species</b>	Mouse
<b>Source</b>	Mouse
<b>Description</b>	II11 issecreted by bone marrow stromal cells (fibroblasts)and is produced also bya number of mesenchymal cells. The II11receptor (alpha chain) utilizes gp130 as its signal transducer, which isalso a component of other cytokine receptors. The alpha chain of the II11receptor has been identified independently as EtI2. II11promotes primary and secondary immune responses in vitro and in vivo andmodulates antigen-specific antibody reactions.
<b>Purity</b>	>95%, asdetermined by SDS-PAGE and HPLC.
<b>Sequence</b>	MNCVCRLVLV VLSLWPDRVV APGPPAGSPR VSSDPRADLD SAVLLTRSLL ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLTRLRVD LMSYL RHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS IRAAHAILGG LHLLTDWAVR GLLLLKTRL
<b>Molecular Weight</b>	Native Mousell11, generated by the proteolytic removal of the signal peptide andpropeptide, the molecule has a calculated molecular mass of approximately

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	19kDa.
<b>Biological Activity</b>	The ED(50) was determined by the dose-dependent stimulation of the proliferation of murine T11 cells is $\leq 1.0$ ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.
<b>Endotoxin</b>	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/g (1EU/g).
<b>Reconstitution</b>	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
<b>Storage</b>	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2°C - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
<b>Official Symbol</b>	Il11
<b>Pathways</b>	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage; Jak-STAT signaling pathway; Rheumatoid arthritis

## GENE INFORMATION

<b>Gene Name</b>	Il11 interleukin 11 [ <i>Mus musculus</i> ]
<b>Synonyms</b>	Il11; interleukin11; IL-11; interleukin-11
<b>Gene ID</b>	16156
<b>mRNA Refseq</b>	NM_008350

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<b>Protein Refseq</b>	NP_032376
<b>UniProt ID</b>	P47873
<b>Function</b>	cytokine activity; growthfactor activity; interleukin-11 receptor binding

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