

Recombinant Mouse interleukin 11

Cat. No. Il11-586M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantIl11 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.
Species	Mouse
Source	Mouse
Description	Il11 issecreted by bone marrow stromal cells (fibroblasts)and is produced also bya number of mesenchymal cells. The Il11receptor (alpha chain) utilizes gp130 as its signal transducer, which isalso a component of other cytokine receptors. The alpha chain of the Il11receptor has been identified independently as Et12. Il11promotes primary and secondary immune responses in vitro and in vivo andmodulates antigen-specific antibody reactions.
Purity	>95%, asdetermined by SDS-PAGE and HPLC.
Sequence	MNCVCRLVLV VLSLWPDRVV APGPPAGSPR VSSDPRADLD SAVLLTRSL ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLTRLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS IRAAHAILGG LHLTLDWAVR GLLLLKTRL
Molecular Weight	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.
Biological Activity	The ED(50) was determined by the dose-dependent stimulation of the proliferation of murine T11 cells is ≤ 1.0 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/g (1 EU/g).
Reconstitution	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.
Storage	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.
Official Symbol	Il11
Pathways	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage; Jak-STAT signaling pathway; Rheumatoid arthritis

GENE INFORMATION

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

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

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