

Recombinant Mouse Il11 protein

Cat. No. Il11-161M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il11 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	179
Description	Interleukin-11 (IL-11) is encoded by the Il11 gene. IL-11 is a multifunctional cytokine first isolated from bone marrow-derived stromal cells. IL-11 receptor activation requires formation of a complex of two IL-11 molecules with two molecules of the ligand-binding IL-11 Ra subunit and two molecules of the expressed cell signaling β subunit, gp130. IL-11 is a member of the IL-6 superfamily, distinguished based on their use of the common co-receptor gp130. IL-11 can directly stimulate the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells, and induce megakaryocyte maturation resulting in increased platelet production. Mature murine IL-11 shares 88 % amino acid sequence identity with human IL-11.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine T11 cells is less than 2 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 19.1 kDa, a single non-glycosylated polypeptide chain containing 179

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	amino acids.
AA Sequence	MPGPPAGSPRVSSDPRADLDSAVLLTRSLADTRQLAAQMRDKFPADGDHSLDSLPTLAMSAGTLGSLQLPGVLTRLRVDLMSYLRHVQWLRRAAGGPSLKTLEPELGALQARLERLLRRLQLLMSRLALPQAAPDQPVIPLGPPASAWGSIRAAHAILGGLHLTLDWAVRGLLLLKTRL
Endotoxin	Less than 1 EU/g of rMuIL-11 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL11
Official Symbol	IL11
Synonyms	IL11; interleukin 11; interleukin-11; IL-11;
Gene ID	16156

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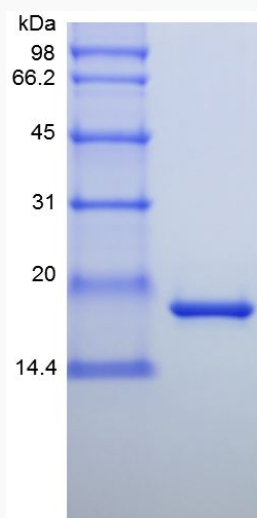
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mRNA Refseq NM_008350

Protein Refseq NP_032376

UniProt ID P47873

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