

Active Recombinant Mouse IL11 Protein

Cat. No. IL11-131M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL11 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Interleukin 11 (IL-11) is a member of the gp130 family of cytokines. IL-11 functions to promote hematopoietic stem cell proliferation and megakaryocyte differentiation. In non-hematopoietic cell populations, IL-11 stimulates acute-phase proteins, modulates the development of immunoglobulin-producing B cells, and regulates bone turnover. IL-11 binds the IL-11R α receptor to activate JAK downstream signaling.
Bio-activity	B9 cell proliferation, ED50 $\leq$ 250 ng/mL
Molecular Mass	Monomer, 19.3 kDa (179 aa)
AA Sequence	MPGPPAGSPRVSSDPRADLDSAVLLTRSLADTRQLAAQMRDKFPADGDHSLD SLP TLAMSAGTLGSLQLPGVLTSLRVLDLMSYLRHVQWLRRAAGGPSKLTLEPEL GALQAR LERLLRRLQLLMSRLALPQAAPDQPVIPPLGPPASAWGSIRAAHAILGGLH LTLDWAV RGLLLLKTRL
Endotoxin	$\leq$ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq$ 95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	IL11 interleukin 11 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL11
Synonyms	IL11; interleukin 11; interleukin-11; IL-11;
Gene ID	16156
mRNA Refseq	NM_008350
Protein Refseq	NP_032376

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UniProt ID

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