

Active Recombinant Human IL11 Protein

Cat. No. IL11-130H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL11 Protein without tag was expressed in E. coli.
Species	Human
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. Human IL-11 shows activity on murine cells.
Bio-activity	TF-1 cell proliferation, ≤ 10 ng/mL; $\geq 1.0 \times 10^5$ units/mg
Molecular Mass	Monomer, 19.3 kDa (179 aa)
AA Sequence	MPGPPPGPPRVSPDPRAELDSTVLLTRSLADTRQLAAQLRDKFPADGDHNLDSLPTLAMSAGALGALQLPGVLRRLRADLLSYLRHVQWLRRAAGSSSLKTLEPELGTQLQARLDRLRRLQLLMSRLALPQPPDPPAPPLAPPSSAWGGIRAAHAILGGLHLTLDWAVRGLLLKTRL
Endotoxin	≤ 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 [Homo sapiens (human)]
Official Symbol	IL11
Synonyms	IL11; interleukin 11; interleukin-11; adipogenesis inhibitory factor; AGIF; IL 11; oprelvekin; IL-11;
Gene ID	3589
mRNA Refseq	NM_000641

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Protein Refseq NP_000632

MIM 147681

UniProt ID P20809

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