

Active Recombinant Human IL11 Protein

Cat. No. IL11-259I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL11 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 α -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 has multiple effects on both hematopoietic and non-hematopoietic cells. Many of the biological effects described for IL-11 overlap with those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell-dependent development of specific immunoglobulin-secreting B cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 ng/mL, measured in a proliferation assay using T11 cells.
Molecular Mass	~23 kDa, observed by reducing SDS-PAGE.
AA Sequence	PGPPPGPPRVSPDPRAELDSTVLLTRSLADTRQLAAQLRDKFPADGDHNLDSLPTL AMSAGALGALQLPGVLRRLRADLLSYLRHVQWLRRRAGGSSSLKTLEPELGTQLQARLD RLLRRLQLLMSRLALPQPPDPPAPPLAPPSSAWGGIRAAHAILGGLHLTLDWAVRG

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	LLLLKTRL
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human Interleukin-11 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Interleukin-11 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	IL11 interleukin 11 [Homo sapiens]
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
Protein Refseq	NP_000632
MIM	147681

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UniProt ID

P20809

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