

Active Recombinant Rat Il3 Protein, His-tagged

Cat. No. Il3-247I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il3 Protein with a His tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interleukin-3 (IL-3), also known as MCGF, Multi-CSF, HCGF and P-cell stimulation factor, belongs to the α -helix family of hematopoietic cytokines. It is produced by activated T-cells, mast cells and natural killer cells. IL-3 binds to the IL-3 receptor alpha subunit and recruits the signal-transducing common beta chain. IL-3-induced signal transduction results in the survival, differentiation and proliferation of a variety of immune cells, such as macrophages, neutrophils, megakaryocytes, mast cells and hematopoietic stem cells. IL-3 often acts synergistically with other cytokines, such as IL-7, EPO, GM-CSF and IL-6, to exert its stimulative function.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 8 ng/mL, measured in a cell proliferation assay using NF S-60 cells.
Molecular Mass	22-34 kDa, observed by reducing SDS-PAGE.
AA Sequence	ISDRGSDAHLLRRLDCRTIALEILVKLPYPQVSGLNNSDDKANLRNSTLRRVNLDEF LKSQEEFDSQDTTDIKSKLQKLCIPAAASDSVLPGVYKDLDDFKKLRFYVIHLK DLQPVSVSRPPQPTSSSDNFRPMTVECHHHHHH

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant ratInterleukin-3 (IL-3), His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat Interleukin-3 (IL-3), His 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 ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	IL3 interleukin 3 [<i>Rattus norvegicus</i>]
Official Symbol	IL3
Synonyms	IL3; interleukin 3; interleukin-3; IL-3; MCGF; mast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor;
Gene ID	24495
mRNA Refseq	NM_031513
Protein Refseq	NP_113701
UniProt ID	F1LS41

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