

Active Recombinant Rat IL3 β Protein (144 aa)

Cat. No. IL3-355I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant rat Interleukin-3 beta (rrIL-3 beta) produced in E. coli is a single non-glycosylated polypeptide chain containing of 144 amino acids. A fully biologically active molecule, rrIL-3 beta has a molecular mass of 16.3 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Rat
Source	E.coli
ProteinLength	144
Description	Interleukin-3 (IL-3) is a pleiotropic cytokine belonging to the interleukin family. IL-3 shares similarities with Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) and IL-5: they all have a four-helix bundle structure, are located on the same chromosomes in both human and mouse, are produced by activated T cells, and share receptors. The IL-3/IL-5/GM-CSF receptor family members are all heterodimeric, composed of a receptor-specific α chain and a common β chain. IL-3 is also called multi-colony stimulating factor since it stimulates the development and colony formation of multiple lineages of hematopoietic cells by activating intracellular pathways such as Ras-Raf-ERK and JAK/STAT. IL-3 inhibits apoptosis and promotes cell survival by targeting the anti-apoptotic bcl-2 gene family.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.

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Bio-activity	ED50 < 5 ng/mL, measured by a cell proliferation assay using NFS-60 cells, corresponding to a specific activity of > 2 × 10 ⁵ units/mg.
Molecular Mass	16.3 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	MISDRGSDAHLLRLDLCRTIALEILVKLPYPQVSGLNNSDDKANLRNSTLRRVNLDE FLKSQEEFDSQDTTDIKSKLQKLKCCIPAAASDSVLPGVYNKDLDDFKKKLRFYVIHL KDLQPVSVSRPPQPTSSSDNFRPMTVEC
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant rat Interleukin-3 beta (rrIL-3 beta) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrIL-3 beta remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.
GENE INFORMATION	
Gene Name	Il3 interleukin 3 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Il3
Synonyms	Il3; interleukin 3; interleukin-3; IL-3; MCGF; P-cell-stimulating factor; hematopoietic growth factor; mast cell growth factor; multipotential colony-stimulating factor
Gene ID	24495

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mRNA Refseq [NM_031513](#)

Protein Refseq [NP_113701](#)

UniProt ID [F1LS41](#)

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