

Active Recombinant Mouse IL3 Protein

Cat. No. IL3-455M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL3 (NP_034686.2) (Met1-Cys166) was expressed
Species	Mouse
Source	HEK293
ProteinLength	Met1-Cys166
Description	IL3 (interleukin 3), also known as IL-3, is a potent growth promoting cytokine which belongs to the IL-3 family. IL3/IL-3 also belongs to the group of interleukins. Interleukins are produced by a wide variety of body cells. The function of the immune system depends in a large part on interleukins, and rare deficiencies of a number of them have been described, all featuring autoimmune diseases or immune deficiency. The majority of interleukins are synthesized by helper CD4+ T lymphocytes, as well as through monocytes, macrophages, and endothelial cells. They promote the development and differentiation of T, B, and hematopoietic cells. IL3/IL-3 is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. IL3/IL-3 has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.
Predicted N Terminal	Ala 27
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Bio-activity	Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 0.1-0.5 ng/mL.
Molecular Mass	The recombinant mouse IL3 consists of 140 amino acids and predicts a molecular mass of 15.7 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL3 interleukin 3 [<i>Mus musculus</i>]
Official Symbol	IL3
Synonyms	IL3; interleukin 3; interleukin-3; mast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor; BPA; PSF; HCGF; IL-3; MCGF; Csfmu;
Gene ID	16187
mRNA Refseq	NM_010556

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Protein Refseq

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