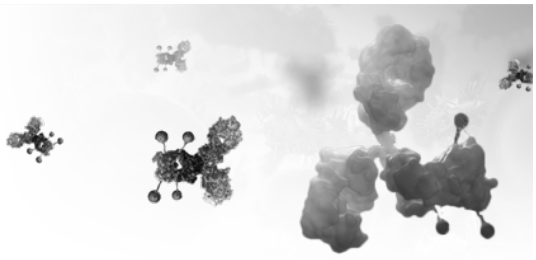

Mouse Interleukin 3 (DAG306)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	RecombinantMouse Il3 is a single non-glycosylated polypeptide chain containing 135 aminoacids and having a molecular weight of 15,100 Da, was expressed in E. coli.The sequence of the first five N-terminal amino acids was determined to beMet-Asp-Thr-His-Ar
Antigen Description	Interleukin-3(IL-3) is an interleukin, a type of biological signal (cytokine) that can improvethe body"s natural response to disease as part of the immune system. It actsby binding to the interleukin-3 receptor. IL-3 stimulates the differentiationof multipotent hematopoietic stem cells into myeloid progenitor cells (asopposed to lymphoid progenitor cells where differentiation is stimulated byIL-7) as well as stimulates proliferation of all cells in the myeloid lineage(erythrocytes, megakaryocytes, granulocytes, monocytes, and dendritic cells).It is secreted by basophils and activated T cells to support growth anddifferentiation of T cells from the bone marrow in an immune response. Thehuman IL-3 gene encodes a protein 152 amino acids long, and the naturallyoccurring IL-3 is glycosylated. The human IL-3 gene is located on chromosome5, only 9 kilobases from the GM-CSF gene, and its function is quite similarto GM-CSF.
Species	Mouse
Conjugate	Unconjugated
Applications	The ED50 asdetermined by the dose-dependent stimulation of mouse M-NFS-60 cells is and lt;0.05ng/ml, corresponding to a specific activity of 2 x 107 IU/mg.Each laboratory should determine an optimum working titer for use in itsparticular application. Othe
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration 100µg/ml.Further dilutions can be made in other aqueou buffers.
Concentration	1 mg/ml(OD280nm, E0.1% = 0.154) (prior to lyophilization)
Buffer	Lyophilized fromwater containing no additives
Preservative	None

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Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages.This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.
Keywords	IL3; interleukin 3 (colony-stimulating factor, multiple); interleukin-3; hematopoietic growth factor; IL 3; mast cell growth factor; MCGF; MGC79398; MGC79399; MULTI CSF; multilineage colony stimulating factor; P cell stimulating factor; mast-cell growth f

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