



Human IL3 peptide (DAG312)

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

PRODUCT INFORMATION

Product Overview	Recombinant Human IL-3 is a single non-glycosylated polypeptide chain containing 133 amino acids and having a molecular weight of 15,000 Da. The sequence of the first five N-terminal amino acids was determined to be Ala-Pro-Met-Thr-Gln.
Antigen Description	Interleukin-3 (IL-3) is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. IL-3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells (as opposed to lymphoid progenitor cells where differentiation is stimulated by IL-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 and differentiation of T cells from the bone marrow in an immune response.
Species	Human
Conjugate	Unconjugated
Applications	Specific methodologies have not been tested using this product.
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration $\geq 100 \mu\text{g/ml}$. Further dilutions can be made in other aqueous buffers.
Concentration	1 mg/ml (OD _{280nm} , E _{0.1%} = 0.84) (prior to lyophilization)
Buffer	Lyophilized from water containing 5mg HSA and 4.3mg Sodium chloride
Preservative	None
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

GENE INFORMATION

Entrez Gene ID

[3562](#)

UniProt ID

[P08700](#)