

RECOMBINANT HUMAN INTERLEUKIN-5 (hIL-5)

Catalog # 02505

5 mg per vial

Catalog # 02605

25 mg per vial

PRODUCT DESCRIPTION:

Human Interleukin 5 (IL-5) is a species-crossreactive cytokine produced by mast cells, T cells and eosinophils. It induces the proliferation, differentiation and activation of eosinophils. It is also a growth and differentiation factor for mouse but not human B cells. IL-5 is an antiparallel disulphide-linked homodimer of molecular mass of approximately 45 kDa. Mature IL-5 monomers contain 115 amino acid residues and 2 glycosylation sites. IL-5 binds to a specific heterodimeric cell surface receptor formed by two subunits, the binding IL-5R α subunit and the non-binding β subunit, also shared by the receptors for IL-3 and GM-CSF, thus termed β -common (β c). Due to heterogeneous glycosylation, recombinant IL-5 resolves into multiple bands ranging from 32-34 kDa in SDS-PAGE.

SOURCE:

A DNA sequence encoding the human IL-5 protein sequence was expressed in *Sf 21* insect cells.

PURITY:

Greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level less than 0.1 ng per 1 μ g of the cytokine as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 μ m filtered solution in PBS containing 50 μ g of bovine serum albumin per 1 μ g of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 1 μ g/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.

Reconstituted IL-5 can be stored under sterile conditions at 2°C - 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles

ACTIVITY:

Activity was determined in a cell proliferation assay using a factor-dependent human cell line, TF-1 and the ED₅₀ for this effect was typically 0.1 - 0.2 ng/mL.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**