RECOMBINANT MOUSE INTERLEUKIN-5 (mIL-5)

Catalog # 02705	**5 µg per vial**
Catalog # 02905	**25 µg per vial**

PRODUCT DESCRIPTION:

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 B cells. IL-5 is an antiparallel disulphide-linked homodimer of molecular mass of approximately 45 kDa. Mature IL-5 monomers contain 113 amino acid residues and 3 glycosylation sites. IL-5 binds to a specific heterodimeric cell surface receptor formed by two subunits, the binding IL-5Rα subunit and the non-binding β subunit, also shared by the receptors for IL-3 and GM-CSF, thus termed
β-common (βc). Due to heterogeneous glycosylation, recombinant IL-5 resolves into multiple bands ranging from 32-34 kDa in SDS-PAGE.

SOURCE:

Produced in *Spodoptera frugiperda* 21 cells using a recombinant baculovirus expression vector containing a mouse IL-5 cDNA cloned from EL-4 T cells.

PURITY:

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

FORMULATION:

Lyophilized from a sterile solution in PBS containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS 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 5 µg/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.
Reconstituted mouse 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 the factor-dependent human cell line, TF-1 and the ED_{50} for this effect was typically 0.04 - 0.15 ng/mL.

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

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