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Mouse IL-5 Recombinant Protein Carrier-Free

Catalog Number: 34-8051
Also Known As:Interleukin-5, IL5
RUO: For Research Use Only

Product Information

Contents: Mouse IL-5 Recombinant Protein Carrier-Free
REF Catalog Number: 34-8051
Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile envrioment.
Source: Insect cells infected with baculovirus: amino acids Met 21- Gly 133 of mouse IL-5 (accession # NM_010558).
Molecular Mass: The protein has a predicted molecular mass of 13,126. The DTT reduced protein migrates as two major bands of 16 and 21 kDa and the non-reduced protein migrates as a group of bands corresponding to dimer at 37-39 kDa. Heterogeneity results from different glyscosylation states.
Purity: Greater than 98%, as determined by SDS-PAGE
Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.
Bioactivity: Measured by human TF-1 cell proliferation assay. The ED50 is 0.1 ng/ml, corresponding to a specific activity of 1.0 x 10E7 Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 150 mM NaCl. 0.22 µm filtered.
Temperature Limitation: Store at less than or equal to -70°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial

Description

Recombinant mouse IL-5 is a disulfide-linked homodimer, containing two 113 amino acid peptides; these resolve as 32-34 kDa bands in SDS-PAGE. IL-5 is produced by T cells and has been known as eosinophil-differentiating factor (EDF), B cell growth factor II (BCGFII), and T cell-replacing factor (TRF). IL-5 induces eosinophil differentiation and promotes eosinophil survival and activation. In mice, IL-5 has been shown to stimulate B cell proliferation and antibody production.

Applications Reported

Mouse IL-5 Recombinant Protein Carrier-Free has been reported for use in cytokine bioassays.

Applications Tested

This recombinant mouse IL-5 has been tested by sandwich ELISA using the anti-mouse IL-5 antibody pair (TRFK5/TRFK4), and in bioassays using the IL-5 responsive human cell line TF-1. The ED_{50} measured in a TF-1 proliferation assay is typically 100 pg/ml, corresponding to a specific activity of approximately $1x10^7$ Units/mg.

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