

## Product Information

Contents: Carrier-Free Recombinant Mouse IL-3 (Interleukin-3)

Catalog Number: 34-8031

Sizes: 100 ug, 500 ug

Formulation: Phosphate buffered saline, pH 7.2, 150 mM NaCl, with no carrier or stabilizer. 0.22 uM filtered.

Storage Conditions: For greatest stability, keep concentration of primary stock at or above 10 µg/ml. For long term storage, aliquot into polypropylene vials (volumes of 20 µl or greater) and store at or below -80°C. Avoid repeated freeze/thaw cycles.

Handling Conditions: For best recovery, always quick-spin vial prior to opening. For dilution of current stock, always include carrier protein (1% BSA or 10% FBS) in the buffered saline diluent.

Source: E. coli expressed amino acids ala 27-cys 166 of mature mouse IL-3 (accession # NM\_010556).

Molecular Mass: The protein may be methionylated at the N-terminal and without the met has a predicted molecular mass of 15,673. The DTT reduced protein migrates as an 16 kDa polypeptide on SDS-PAGE. The non-reduced protein migrates as a 14 kDa polypeptide.

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 mouse MC/9 cell proliferation assay. The ED<sub>50</sub> is 0.1 ng/ml, corresponding to a specific activity of 1.0 x 10<sup>7</sup> Units/mg.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-8031	Mouse IL-3 Recombinant Protein	N/A	N/A	BA
34-8031	Mouse IL-3 Recombinant Protein Carrier-Free	N/A	N/A	BA

**Flow Cytometry Product Notes:**  
 Test Sizes: To accommodate multicolor flow cytometry, eBioscience is in the process of reducing test size volumes from 20 µl to 5 µl. Please check your antibody vial for the recommended test size.  
 Fluorochrome Replacements: eBioscience is in the process of replacing all Pacific Blue® and APC-Alexa Fluor® 750 conjugated products with eFluor™ 450 and APC-eFluor™ 780 conjugated products, respectively.

Custom Product Requests
Need a custom product? Download the Custom Product Request Form and submit completed form to <a href="mailto:customs@ebioscience.com">customs@ebioscience.com</a> .

Questions? Please consult our answers to frequently asked questions at <http://www.ebioscience.com/faq>.

## Description

Mouse IL-3, also called Mast Cell Growth Factor (MCGF), Multi-Colony Stimulating Factor (multi-CSF), Eosinophil-CSF (E-CSF), is produced by activated T cells, mast cells and eosinophils. IL-3 is a hematopoietic growth factor that stimulates colony formation of erythroid, megakaryocyte, neutrophil, eosinophil, basophil, mast cell and monocytic lineages. Most of these functions are enhanced or dependent on co-stimulation with other cytokines.

## Applications Reported

For research use only, not for diagnostic or therapeutic use. Recombinant mouse IL-3 is biologically active.

## Applications Tested

This recombinant mouse IL-3 has been tested by MC/9 cell proliferation bioassay with an observed ED<sub>50</sub> of 100 pg/ml, corresponding to a specific activity of approximately 1x10<sup>7</sup> Units/mg.

## Related Products

Cat. 14-1231 Affinity Purified anti-mouse CD123 (Interleukin-3 Receptor alpha, IL-3 Receptor alpha, IL-3Ra, IL3Ra) (clone 5B11)

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