



## RECOMBINANT MOUSE INTERLEUKIN-3

**CATALOG NUMBER:** IL015

**LOT NUMBER:**

**QUANTITY:** 10  $\mu$ g

**DESCRIPTION:** Interleukin-3 (IL-3) is a species specific colony stimulating factor, which stimulates colony formation of megakaryocytes, neutrophils, and macrophages from bone marrow cultures. Mouse IL-3 is a 15.1 kDa protein containing 135 amino acid residues.

**SOURCE:** *E. coli*

**PURITY:** Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per  $\mu$ g (1EU/ $\mu$ g) of mouse IL-3.

**ACTIVITY:** Chemicon's mouse IL-3 is fully biologically active when compared to standards. The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is  $\leq 0.05$  ng/mL, corresponding to a specific activity of  $\geq 2 \times 10^7$  units/mg..

**APPLICATIONS:** For most *in vitro* applications, mouse IL-3 exerts its biological activity in the concentration range of 0.1 to 10.0 ng/mL. Responding cells are (partial list): Certain BM precursor cells.

**PRESENTATION:** Sterile filtered and lyophilized protein with no additives.

**STORAGE/HANDLING:** The lyophilized powder, though stable at room temperature, is best stored desiccated at -20°C. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other aqueous buffers and stored at 4°C for one week or at -20°C for future use. Reconstituted mouse IL-3 should be stored in undiluted aliquots at -20°C for up to six months.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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