

Recombinant Mouse IL-3 (carrier-free)

Catalog # / Size: 575502 / 10 µg
575504 / 25 µg
575506 / 100 µg
575508 / 500 µg

Source: Mouse IL-3, amino acids Ala 27 – Cys 166 (Accession# NM_010556), was expressed in *E. coli*.

Molecular Mass: The 140 amino acid recombinant protein has a predicted molecular mass of 15673.7 Da. The DTT-reduced protein migrates at approximately 16 kDa and the non-reduced protein migrates with slightly greater mobility by SDS-PAGE.

Purity: >98%, as determined by Coomassie stained SDS-PAGE.

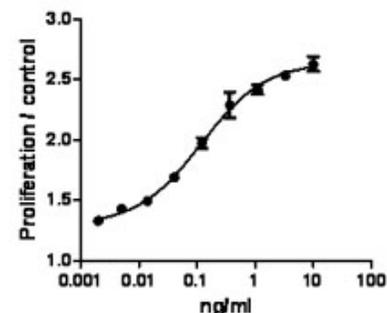
Endotoxin Level: Less than 0.01ng per µg cytokine as determined by the LAL method.

Activity: ED₅₀ = 0.05 - 0.200 ng/ml, corresponding to a specific activity of 0.5-2.0 x 10⁷ units/mg, as determined by the dose dependent stimulation of a M-NFS-60 cell proliferation assay.

Preparation: 10-100µg sizes are bottled at 200µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial.

Formulation: 0.22µm filtered protein solution is in 10mM NaHPO₄ pH7.2, 0.15M NaCl

Storage: Unopened vial can be stored at 4°C for three months, at -20°C for six months, or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10µg/mL in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. **Avoid repeated freeze/thaw cycles.**



Bioactivity of mouse IL-3 was tested by a proliferation assay using M-NFS-60 cells.

Applications:

Applications: Bioassay

Description: IL-3 is the most potent growth factor for basophils followed by granulocyte-macrophage colony-stimulating factor and IL-5. These cytokines also act on mature basophils through specific receptors, thereby mediating adhesion, migration, and releasability. IL-3 is highly expressed by mast cells, and rapid and large amount of autocrine IL-3 production is responsible for mast cell survival by IgE in the absence of antigen. IL-3 has also been implicated in the pathogenesis of several chronic inflammatory diseases, including asthma, atherosclerosis, and neurodegenerative disorders, such as multiple sclerosis.

- Antigen References:**
1. Kohno M, *et al.* 2005 *Blood* 105:2059-2065.
 2. Valent P and Dahinden CA, *et al.* 2010 *Curr Opin Hematol* 17:60-66.
 3. Kleemann R, *et al.* 2008 *Cardiovascular Research* 79:360-376.
 4. Murphy JM and Young IG, *et al.* 2006 *Vitam Horm* 74:1-30.



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