

DATASHEET
Version 20181206**IL-3, Human(CHO-expressed)****Cat. No.:** Z02991-50**Size:** 50.0 ug**Synonyms:** MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor**Description:**

Interleukin-3 (IL-3) is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoieses, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is species-specific, variably glycosylated cytokine.

Recombinant human interleukin 3 expressed in CHO cells is glycosylated protein with molecular weight range from 17 to 30 kDa shown in non-reducing SDS-PAGE.

Amino Acid Sequence:

00001 APMTQTTPK TSWVNCNMI DEIITLKQP PLPLDFNNL
00041 NGEQDILME NNLRRPNLEA FNRAVKSQN ASAIESILKN
00081 LLPCLPLATA APTRHPIHK DGDWNEFRK LTFYKLTLEN
00121 AQAQQTLSL AIF

Source: CHO**Species:** Human**Biological Activity:** ED₅₀ < 0.1 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1×10⁷ units/mg.**Molecular Weight:** 17-30 kDa, observed by non-reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant human Interleukin 3 (IL-3) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-3 should be stable up to 1 week at 4°C or up to 2 months at -20°C.