

**DATASHEET**  
Version 20181206**IL-3, His, Rat****Cat. No.:** Z03196-10**Size:** 10.0 ug**Synonyms:** MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor**Description:**

Interleukin-3 (IL-3), also known as MCGF, Multi-CSF, HCGF and P-cell stimulation factor, belongs to the  $\alpha$ -helix family of hematopoietic cytokines. It is produced by activated T-cells, mast cells and natural killer cells. IL-3 binds to the IL-3 receptor  $\alpha$  subunit and recruits the signal-transducing common  $\beta$  chain. IL-3 induced signal transduction results in the survival, differentiation and proliferation of a variety of immune cells, such as macrophages, neutrophils, megakaryocytes, mast cells and hematopoietic stem cells. IL-3 often acts synergistically with other cytokines, such as IL-7, EPO, GM-CSF and IL-6, to exert its stimulative function.

**Amino Acid Sequence:**

00001 ISDRGSDAHH LLRTLDCRTI ALEILVKLPY PQVSGLNNSD  
00041 DKANLRNSTL RRNLDEFLK SQEEFDSQDT TDIKSKLQKL  
00081 KCCIPAAASD SVLPGVYNKD LDDFKKKLRF YVIHLKDLQP  
00121 VSVSRPPQPT SSSDNFRPMT VECHHHHHH

**Source:** CHO**Species:** Rat**Biological Activity:** ED<sub>50</sub> < 8 ng/ml, measured in a cell proliferation assay using NF S-60 cells.**Molecular Weight:** 22-34 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.**Storage:** Lyophilized recombinant rat Interleukin-3 (IL-3), His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-3 (IL-3), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.