

IL-3/HCGFBPA/PSF, Mouse, Recombinant

Cat. No. : PCK312

General Information

Synonyms	MCGF (Mast Cell Growth Factor);Multi-CSF;HCGF;P-cell stimulation factor;Interleukin-3b;BPA;PSF;Csfmu
Species	Mouse
Expression host	E.coli
Sequence	MDTHRLTRLNCSSIVKEIIGKLPEPELKTDDGEGPSLRNKSFRRVNLSKFVESQGEVDPEDRYVIKSNLQKLNCCCLPTSANDSALPGVFIRDLDLDFRKKLRFYVMVHLNDLETVLTSRPPQPASGSVSPNRGTVEC with polyhistidine tag at the C-terminus.
Accession	P01586.1
Tag	His-tag at the C-terminus
Mol mass	16.04 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce NFS-60 cells proliferation. The ED50 for this effect is < 85 pg/mL. The specific activity of recombinant mouse IL-3 is approximately > 1 × 10 ⁷ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 3 is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. Interleukin 3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e.g., Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. It is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.

SDS-PAGE

