

IL-3 Protein, Mouse, Recombinant (E. coli)

General Information

Synonyms:	HCGF;interleukin 3;P-cell stimulation factor;MCGF;IL-3;IL3;MULTI-CSF;Mast cell growth factor
Protein Construction:	Asp33-Cys166
Species:	Mouse
Expression Host:	E. coli
Accession:	P01586
Molecular Weight:	~15.2 kDa (Non-reducing conditions)

QC Testing

Biological Activity:	ED 50 < 0.05 ng/ml, measured by a cell proliferation assay using M-NFS-60 cells, corresponding to a specific activity of > 2.0 × 10 ⁷ units/mg.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-3 (IL-3) is a pleiotropic cytokine belonging to the interleukin family. IL-3 shares similarities with Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) and IL-5: they all have a four-helix bundle structure, are located on the same chromosomes in both human and mouse, are produced by activated T cells, and share receptors. The IL-3/IL-5/GM-CSF receptor family members are all heterodimeric, composed of a receptor-specific α chain and a common β chain. IL-3 is also called multi-colony stimulating factor since it stimulates the development and colony formation of multiple lineages of hematopoietic cells by activating intracellular pathways such as Ras-Raf-ERK and JAK/STAT. IL-3 inhibits apoptosis and promotes cell survival by

A DRUG SCREENING EXPERT

targeting the anti-apoptotic bcl-2 gene family.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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