BACKGROUND:

Interleukin-3 (IL-3) is a cytokine produced by activated T-cells and mast cells. IL-3 is able to induce the differentiation of hematopoietic stem cells to precursor cells of myeloid lineage (erythrocytes, megakaryocytes, granulocytes, dendritic cells and monocytes). IL-3 also has functions in the nervous system and appears to be important in several chronic inflammatory diseases.

Recombinant human IL-3 is a non-glycosylated protein, containing 133 amino acids and having a molecular mass of 15 kDa.

Cat. No.:
RP1080AF

Alternate Names:
MCGF, Multi-CSF, HCGF, P-cell stimulation factor

AA Sequence:

MAPMTQTTPL KTSWVNCSNM IDEIITHLKQ
PPLPLLDFNN LNGEDQDILM ENNLRRPNLE
AFNRAVKSLQ NASAIESILK NLLPCLPLAT
AAPTRHPIHI KDGDWNEFRR KLTFYLKTLE
NAQAQQTTLS LAIF

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
0.1% Trifluoroacetic Acid (TFA)

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Protein Content and Purity determined by:
- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM Acetic acid at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.