

RECOMBINANT HUMAN IL-3 TAG-FREE GMP

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder
Gene ID	3562
Description	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. The protein acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. 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 a species-specific, variably glycosylated cytokine.
Catalog Number	GE14.1/GE14.2
Unit Size	50µg/100µg
Source	E. coli
Molecular Weight	Approximately 15kDa globular protein containing 133 amino acid residues
AA Sequence	APMTQTSLKTSWVNCNMDIEIITHLKQPPLDLLDFNNLNGEDQDILMENNLRPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIK DGDWNEFRRLTFYKLTLENAQAQQTTLSLAIF
Purity (HPLC)	> 98%
Purity (SDS-PAGE)	> 98%
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is < 0.1 ng/mL, corresponding to a specific activity of ≥ 1.0 × 10 ⁷ Units/mg.
Host Cell DNA Residue	< 0.02 ng/µg of protein tested by DNA Fluorescent Staining method.
Host Cell Protein Residue	< 0.5 ng/µg of protein tested by ELISA.
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, 150mM NaCl, pH7.4
Sterility	Negative
Endotoxin	< 0.01EU/µg as determined by LAL gel-clot method.
Mycoplasma	Negative
Reconstitution	Before use this product, please read the direction below carefully. 1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. 2. Reconstitute in a sterile aqueous buffer to an appropriate concentration. 3. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Stability & Storage	For long term storage, the product should be stored ≤ -20 °C. Please avoid repeated freeze-thaw cycles after reconstitution. 1. At least 24 months from date of receipt, ≤ -20 °C as supplied; 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution; 3. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended.

