



## Recombinant Human IL-3

## Datasheet

**Catalog Number:** PR27075

**Product Type:** Recombinant Protein

**Source:** *E.Coli*

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Met-Thr-Gln

**Description/Molecular Mass:** Interleukin-3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15.0 kDa  
The IL-3 is purified by proprietary chromatographic techniques.

**Protein Content:** Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.171 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of IL3 as a Reference Standard.

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Biological Activity:** The ED50 as determined by the dose-dependant stimulation of TF-1 cells is < 0.1 ng/ml, corresponding to a Specific Activity of  $1 \times 10^7$  IU/mg.

**Format:** Lyophilized from a concentrated (1mg/ml) solution in water containing 5mg HSA and 4.3mg Sodium Chloride.

**Reconstitution:** It is recommended to reconstitute the lyophilized Interleukin 3 in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Interleukin-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 should be stored at 4°C between 2-7 days and for future use below -18°C.  
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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