



Product Datasheet

Product Name	Interleukin-3 Rat Recombinant
Cata No	CB500285
Source	<i>Escherichia Coli.</i>
Synonyms	MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.

Description

Interleukin-3 is a pleiotropic cytokine produced primarily by activated T cells.

IL-3 is thought to function via specific cell surface receptors to stimulate the proliferation, differentiation and survival of haematopoietic cell lines. IL-3 has also been shown to affect the functional activity of a variety of other cell types including mast cells, eosinophils, megakaryocytes and basophils.

Interleukin-3 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 140 amino acids and having a molecular mass of 16 kDa.

The IL-3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50= 3-10 ng/ml, determined by the dose dependent proliferation of murine NFS-60 cells.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a 1mg/ml solution without any additives.

Stability

Lyophilized Interleukin-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL3 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).

Please prevent freeze-thaw cycles.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Asp-Arg-Gly.

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