

32-1396: rIL 3 Recombinant Protein

Alternative Name : MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 1mg/ml solution without any additives.
Storage condition :	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.
Amino Acid :	MISDRGSDAH HLLRTLDCRT IALEILVKLP YPQVSGLNNS DDKANLRNST LRRVNLDEFL KSQEEFDSQD TTDIKSKLQK LKCCIPAAAS DSVLPGVYNK DLDDFKKKLR FYVIHLKDLQ PVSISRPPQP TSSSDNFRPM TVEC.

Application Note

It is recommended to reconstitute the lyophilized Interleukin 3 in sterile 18MΩ·cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of thymidine uptake by murine MC-9 cells is < 10 ng/ml, corresponding to a specific activity of >1.0 x 10⁵ units/mg.

