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IL 3 Mouse

Interleukin-3 Mouse Recombinant
CYK0318

Product Overview

Name	IL 3 Mouse
Description	
Interleukin-3 Mouse Recombinant	
Accession (Primary)	P01586
Synonyms	
MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.	
Stability	
Lyophilized Interleukin-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-3 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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asp-Thr-His-Arg.	
Biological Activity	
The ED50 as determined by the dose-dependant stimulation of murine M-NFS-60 cells is < 0.05 ng/ml, corresponding to a Specific Activity of 20,000,000IU/mg.	

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Solubility

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.

References

1. Title : Direct binding of Cbl to Y568 and Y936 of the stem cell factor receptor/c-Kit is required for ligand-induced ubiquitination, internalization and degradation. Publication :Biochemical Journal Immediate Publication. Published on 19 Jun 2006 as manuscript BJ20060464. Link : IL 3 Mouse prospec publication 2. Title :enhanced self -renewal of hematopoietic stem/progenitor cells mediated by the stem cell gene sall4. Publication : Link : Interleukin-3 Mouse prospec publication 3 . Title :Identification of Y589 and Y599 in the juxtamembrane domain of Flt3 as ligand-induced autophosphorylation sites involved in binding of Src family kinases and the protein tyrosine phosphatase SHP2. Publication :Published online before printMay 9, 2006, doi:10.1182/blood-2005-07-008896 Submitted: July 14, 2005Accepted: April 26, 2006 Blood September 1, 2006vol. 108no. 51542-1550. Link : http://bloodjournal.hematologylibrary.org/content/108 /5/1542.full

Protein content

Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.154 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.

Precautions

IL 3 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01586)