9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 3 Human

Interleukin-3 Human Recombinant
CYK0315

Product Overview

Name	IL 3 Human
Description	
Interleukin-3 Human Recombinant	
Accession (Primary)	P08700
Synonyms	
MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399.	
Introduction	
IL3 is a potent growth promoting cytokine. This cytokine is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution in water containing 0.3 mg/ml of NaHCO3.	
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. Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% 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 Ala-Pro-Met-Thr-Gln.	
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 10,000,000 IU/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 :Interleukin-10 overexpression in macrophages suppresses atherosclerosis in hyperlipidemic mice. Publication :Published online before print March 30, 2010, doi: 10.1096/fj.09-148155 August 2010 The FASEB Journal vol. 24 no. 8 2869-2880 . Link : IL 3 prospec publication 2. Title :A Method for the Selection of Human Embryonic Stem Cell Sublines with High Replating Efficiency After Single-Cell Dissociation. Publication :Article first published online: 24 AUG 2006 DOI:10.1634/stemcells.2005-0657 Copyright © 2006 AlphaMed Press Link : IL 3 Human prospec publication 3. Title: Selective Activation of Human Dendritic Cells by OM-85 through a NF-kB and MAPK Dependent Pathway Publications: PloS one 8.12 (2013): e82867 Link: Interleukin-3 prospec publication 4. Title: Novel markers of normal and neoplastic human plasmacytoid dendritic cells Publication: Blood 111.7 (2008): 3778-3792. Link: Interleukin-3 Human prospec publication

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.84 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 IL-3 as a Reference Standard.

Precautions

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

Target Information: (P08700)