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IL 4 Mouse

Interleukin-4 Mouse Recombinant
CYK0333

Product Overview

Name	IL 4 Mouse
Description	
Interleukin-4 Mouse Recombinant	
Accession (Primary)	P07750
Synonyms	
BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra.	
Introduction	
Interleukin-4 is a pleiotropic cytokine produced primarily by activated T lymphocytes, basophils and mast cells. Multiple immune response-modulating functions are performed by IL-4 on a variety of cell types and it has an important role in the regulator of isotype switching, induction of IgE production in B lymphocytes and differentiation of precursor T helper cells. IL-4 binds to both membrane-bound and secreted soluble IL-4 receptors.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm concentrated (1mg/ml) solution in PBS pH 7.4.	
Stability	
Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL4 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 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVLTAT KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ RLFRAFRCLD SSISCTMNES KSTSLKDFLE SLKSIMQMDY S.	
Biological Activity	

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The ED 50 as determined by the dose-dependant induction of HT-2 cell proliferation is less than 2 ng/ml corresponding to a Specific Activity of 500,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Interleukin 4 in sterile 10mM HAc not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: CD26, adenosine deaminase, and adenosine receptors mediate costimulatory signals in the immunological synapse. publication : Published online before printJune 27, 2005, doi: 10.1073/pnas.0501050102 PNAS July 5, 2005vol. 102no. 279583-9588. Link: IL 4 Mouse prospec publication

Precautions

IL 4 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P07750)