



Interleukin-4, His Tag, human recombinant (rHull-4-His)

Catalog No: 95015
Lot No: XXXXX
Source: *E. coli*
Synonyms: BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra

Background

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.

Description

Interleukin-4 human recombinant produced in *E. coli* is single, a non-glycosylated, polypeptide chain containing 150 amino acids (25-153) including a 20 amino acid His Tag at N-terminus, having a total molecular mass of 17.2 kDa. IL-4 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution (0.5 mg/ml).

Formulation

Interleukin-4 His-Tag is supplied in 20 mM Tris-HCl (pH 8.0) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCAA TVLRQFYSHH
EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLTKI MREKYSKCSS

Activity

The activity was measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is <0.5 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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