



Interleukin-3, His Tag, human recombinant (rHull-3-His)

Catalog No: 95014
Lot No: XXXXX
Source: *E. coli*
Synonyms: MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor, IL-3, MGC79398, MGC79399

Background

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.

Description

Interleukin-3 human recombinant produced in *E. coli* is single, a non-glycosylated, polypeptide chain containing 154 amino acids (20-152) and having a total molecular mass of 17.3 kDa. IL3 is fused with a 20 aa N-terminal His Tag and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

Interleukin-3 His (1 mg/ml) is supplied in 20 mM Tris-HCl buffer (pH 8.0), 0.2 mM PMSF 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). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by analysis by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MAPMTQTSL KTSWVNCNSM IDEIITHLKQ PPLPLLDFFNN LNGEDQDILM ENNLRRPNLE
AFNRAVKS LQ NASAIESILK NLLPCLPLAT AAPTRHPIHI KGDWNEFRR KLTFYLK'TLE NAQAQQT'TLS LAIF

Activity

The ED50 for this effect is <0.53 ng/ml. Measured in a cell proliferation assay using TF1 human erythroleukemic cells.

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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