



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 KGDWNEFRRL KLTFFYLK'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

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