

Human IL-3 (His Tag) recombinant protein



Catalog Number: 503575

General Information

Gene Name Synonym

Hematopoietic growth factor; Mast cell growth factor; Multipotential colony-stimulating factor; P-cell-stimulating factor

Protein Construction

A DNA sequence encoding the human IL3 (NP_000579.2) (Met 1-Phe 152) was expressed, fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

1. Measured in a cell proliferation assay using TF1 human erythroleukemic cells (Kitamura, T. et al. 1989 J. Cell Physiol. 140: 323.). The ED₅₀ for this effect is typically 0.3-1.5 ng/ml.
2. Measured by its binding ability in a functional ELISA. Immobilized human IL3 at 20 µg/ml (100 µl/well) can bind human IL3Ra with a linear ranger of 0.064-1.6 µg/ml. Immobilized human IL3 at 20 µg/ml (100 µl/well) can bind biotinylated human IL3Ra with a linear ranger of 0.32-1.6 µg/ml.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ala 20

Molecular Mass

The recombinant human IL3 consists of 143 amino acids and predicts a molecular mass of 16.5 kDa. It migrates as an approximately 19 kDa band in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

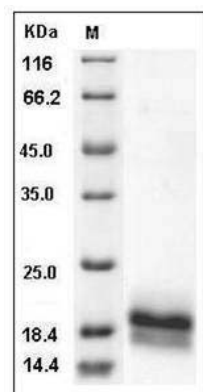
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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Human IL-3 / Interleukin-3 Protein (His Tag) SDS-PAGE