

Rat IL3 / interleukin 3 Protein (His Tag)

Catalog Number: 80235-R08B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL3

Protein Construction:

A DNA sequence encoding the rat IL3 (NP_113701.1) (Met 1-Cys 169) was fused with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

Measured in a cell proliferation assay using FDC-P1 cells.
The ED50 for this effect is typically 2-8 ng/mL.

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: Ile 27

Molecular Mass:

The secreted recombinant rat IL3 comprises 153 amino acids with and has a predicted molecular mass of 17.5 kDa. It migrates as an approximately 24 kDa band in reduced SDS-PAGE.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.0, 10% gly

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

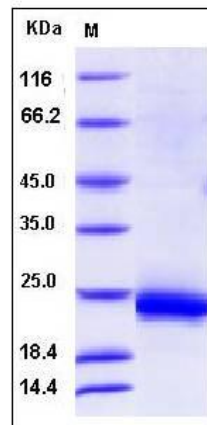
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

IL3 (interleukin 3), also known as IL-3, belongs to the IL-3 family. It is a potent growth promoting cytokine. IL3 is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. It acts by binding to the interleukin-3 receptor. It stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells as well as stimulates proliferation of all cells in the myeloid lineage. IL3 is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response. It is capable of supporting the proliferation of a broad range of hematopoietic cell types. IL3 also has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders. that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor.

References

1. Meyer CG. et al., 2011, Hum Mol Genet. 20 (6): 1173-81.
2. Zambrano A. et al., 2010, Curr Alzheimer Res. 7 (7): 615-24.
3. Dentelli P. et al., 2011, Oncogene. 30 (50): 4930-40.

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