

Datasheet for ABIN6700114

IL-3 Protein**1** Image[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	IL-3
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Mouse Interleukin-3 Recombinant Protein
Purification:	Interleukin-3 purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent stimulation of mouse M-NFS-60 cells and is typically less than 0.05 ng/mL.

Target Details

Target:	IL-3
Alternative Name:	Il3 (IL-3 Products)
Background:	Synonyms: Mast cell growth factor (MCGF), Multipotential colony-stimulating factor, Multi-CSF, Hematopoietic growth factor, HCGF, P-cell stimulation factor Background: Interleukin-3 (IL-3) is a cytokine produced by activated T cells and mast cells. IL-3

Target Details

is able to induce the differentiation of hematopoietic stem cells to precursor cells of myeloid lineage (erythrocytes, megakaryocytes, granulocytes, dendritic cells and monocytes). IL-3 also has functions in the nervous system and appears to be important in several chronic inflammatory diseases. Recombinant mouse IL-3 is a non-glycosylated protein, containing 135 amino acids, with a molecular weight of 15.1 kDa.

UniProt: [P01586](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Carbohydrate Metabolic Process](#), [Autophagy](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Mouse Interleukin-3 Recombinant Protein has been tested by biological activity and is suitable as a control for polyclonal or monoclonal anti-Mouse Interleukin-3 in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

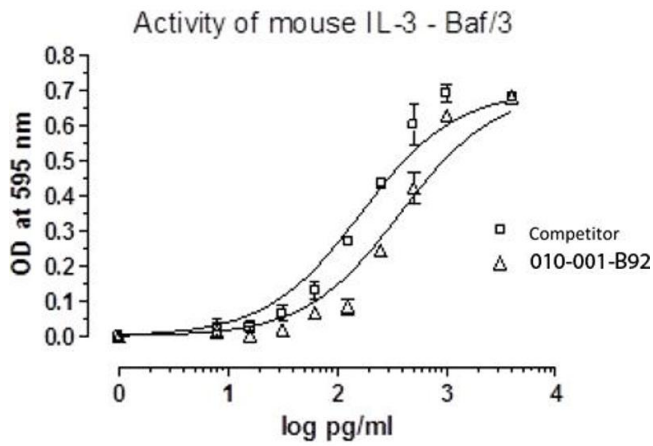
Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 10 µL (10-100 µL)

Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

Preservative: Without preservative

Storage: 4 °C,-20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.



SDS-PAGE

Image 1. SDS-PAGE of Mouse Interleukin-3 Recombinant Protein Bioactivity of Mouse Interleukin-3 Recombinant Protein. Serial dilutions of mouse IL-3, starting at 0.350 ng/mL, were added to Baf/3 cells. After 41 hours cell proliferation was measured and the linear portion of the curve was used to determine the ED50. The ED50 of Mouse IL-3 is 0.3-0.47 ng/mL. This value is comparable to the expected range of less than 0.5 ng/mL.