

Datasheet for ABIN2018102
IL-3 Protein (AA 33-166)[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	IL-3
Protein Characteristics:	AA 33-166
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.05 ng/mL, measured by a cell proliferation assay using M-NFS-60 cells, corresponding to a specific activity of > 2 x 10 ⁷ units/mg. AA 33-166, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-3
Alternative Name:	Interleukin-3 (IL-3) (IL-3 Products)
Background:	Interleukin-3 (IL-3) is a pleiotropic cytokine belonging to the interleukin family. IL-3 shares similarities with Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) and IL-5: they all have a four-helix bundle structure, are located on the same chromosomes in both human and

Target Details

mouse, are produced by activated T cells, and share receptors. The IL-3/IL-5/GM-CSF receptor family members are all heterodimeric, composed of a receptor-specific alpha chain and a common beta chain. IL-3 is also called multi-colony stimulating factor since it stimulates the development and colony formation of multiple lineages of hematopoietic cells by activating intracellular pathways such as Ras-Raf-ERK and JAK/STAT. IL-3 inhibits apoptosis and promotes cell survival by targeting the anti-apoptotic bcl-2 gene family. Recombinant mouse Interleukin-3 (rmIL-3) produced in E. coli is a single non-glycosylated polypeptide chain containing of 135 amino acids. A fully biologically active molecule, rmIL-3 has a molecular mass of 15.2 kDa analyzed by non-reducing SDS-PAGE.

Synonyms: MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor

Molecular Weight: 15.2 kDa, observed by non-reducing SDS-PAGE.

UniProt: [P01586](#)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

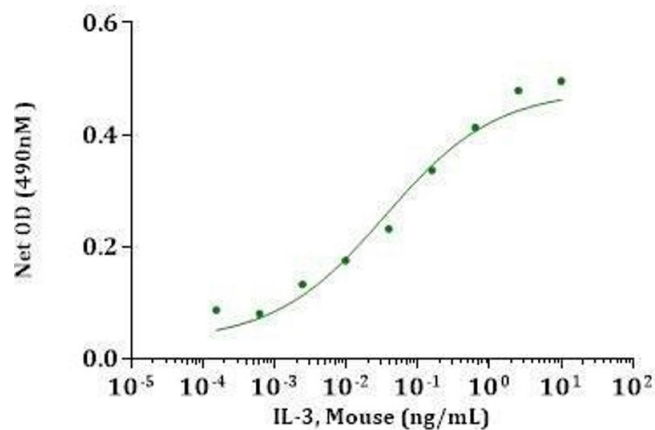
Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

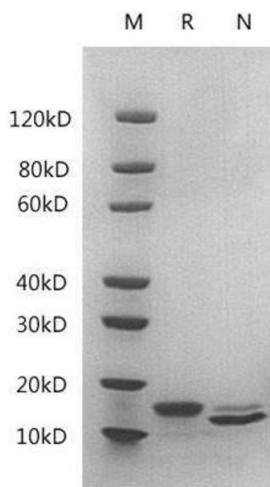
Storage Comment: Lyophilized recombinant mouse Interleukin-3 (rmIL-3) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmIL-3 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months



Activity Assay

Image 1. IL-3, Mouse stimulates cell proliferation of M-NFS-60 cells. The ED50 for this effect is less than 0.05ng/mL (0.03483ng/mL).



SDS-PAGE

Image 2. 2µg of IL-3, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.