

Datasheet for ABIN2018146
IL-6 Protein (AA 25-211) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	25 µg
Target:	IL-6 (IL6)
Protein Characteristics:	AA 25-211
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-6 protein is labelled with His tag.

Product Details

Characteristics:	ED50 < 3 pg /mL, measured in a bioassay using 7TD1 cells. AA 25-211, expressed with C-terminal 6xHis.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	Interleukin-6 (IL-6) (IL6 Products)
Background:	Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that participates in both pro-inflammatory and anti-inflammatory responses. It is produced mainly by T cells, macrophages, monocytes, endothelial cells and muscle cells. IL-6 binds to IL-6

Target Details

receptor (IL-6R) to trigger the association of IL-6R with gp130, inducing signal transduction through JAKs and STATs. The biological functions of IL-6 are diverse. It stimulates B cell differentiation and antibody production, myeloma and plasmacytoma growth, and nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction and released into the blood stream to help break down fats and improve insulin resistance.

Synonyms: 26 kDa protein, IFN-b2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2

Molecular Weight: 24-26 kDa, observed by reducing SDS-PAGE.

UniProt: [P08505](#)

Pathways: [TLR Signaling](#), [Hormone Transport](#), [Negative Regulation of Hormone Secretion](#), [Myometrial Relaxation and Contraction](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of Carbohydrate Metabolic Process](#), [Autophagy](#), [Cell RedoxHomeostasis](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

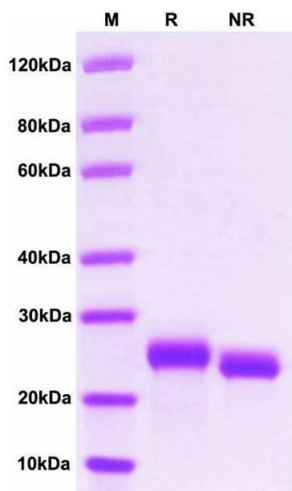
Reconstitution: Reconstituted in ddH2O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

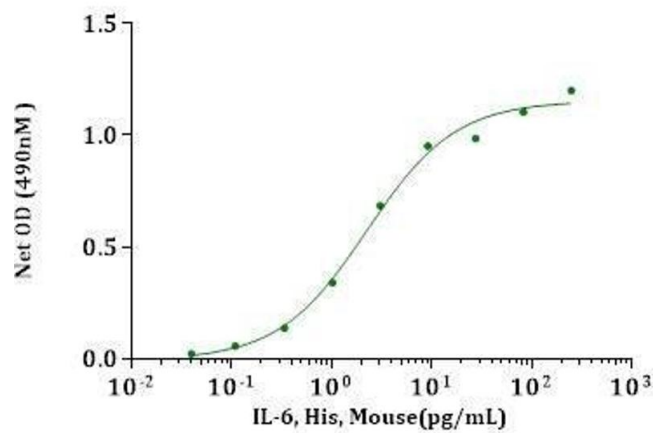
Storage Comment: Lyophilized recombinant murine Interleukin-6 (IL-6), His, Murine remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, murine Interleukin-6 (IL-6), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months



SDS-PAGE

Image 1. 2 µg of IL-6, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



Activity Assay

Image 2. IL-6, Mouse stimulates cell proliferation of 7TD1 cells. The ED50 for this effect is 3pg/mL.