



[Go to Product page](#)

Datasheet for ABIN2018139
IL-6 Protein (AA 29-212)

2 Images

Overview

Quantity:	50 µg
Target:	IL-6 (IL6)
Protein Characteristics:	AA 29-212
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 <0.1 ng/mL, measured by the dose-dependent stimulation of the proliferation of IL-6 dependent murine 7TD1 cells, corresponding to a specific activity of > 1 x 10 ⁷ units/mg. AA 29-212, 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-6 (IL6)
Alternative Name:	Interleukin-6 (IL-6) (IL6 Products)
Background:	Interleukin-6 (IL-6, also known as IFN-beta2) is a pleiotropic cytokine that plays important roles in acute phase reactions, inflammation, hematopoiesis, bone metabolism, and cancer progression. IL-6 is secreted by T cells and macrophages to stimulate immune response. IL-6 is

Target Details

responsible for stimulating acute phase protein synthesis, as well as the production of neutrophils in the bone marrow. It supports the growth of B cells and is antagonistic to regulatory T cells. Recombinant human Interleukin-6 (rhIL-6) produced in E. coli is a single non-glycosylated polypeptide chain containing 185 amino acids. A fully biologically active molecule, rhIL-6 has a molecular mass of 20.9 kDa analyzed by reducing SDS-PAGE.

Synonyms: 26 kDa protein, IFN-beta2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2

Molecular Weight: 20.9 kDa, observed by reducing SDS-PAGE.

UniProt: [Q75MH2](#)

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 Redox Homeostasis](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

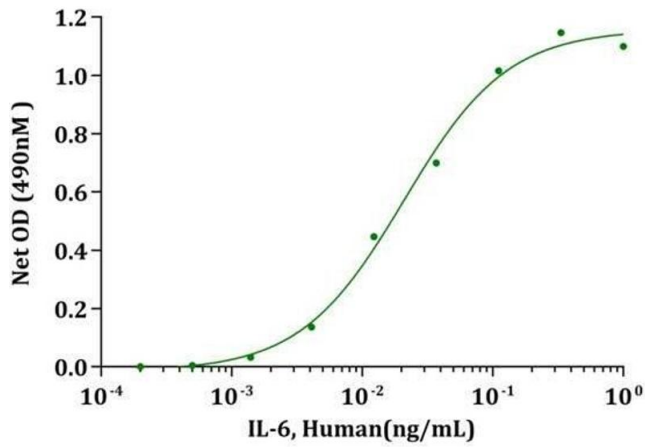
Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 1xPBS.

Storage: -80 °C

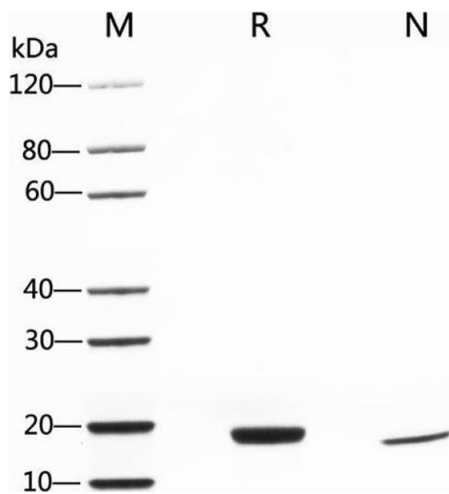
Storage Comment: Lyophilized recombinant human Interleukin-6 (rhIL-6) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-6 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months



Activity Assay

Image 1. IL-6, Human stimulates cell proliferation of 7TD1 cells. The ED50 for this effect is 0.019ng/mL.



SDS-PAGE

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