

Datasheet for ABIN6700155

IL-6 Protein[Go to Product page](#)**1** Image

Overview

Quantity:	5 µg
Target:	IL-6 (IL6)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Interleukin-6 Recombinant Protein (Animal Free)
Purification:	Interleukin-6 is produced with no animal-derived raw products, animal free equipment and animal free protocols. Purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-PAGE.
Purity:	95,00%
Endotoxin Level:	Endotoxin Level: Measured by LAL is typically ≤ 1 EU/µg protein.
Grade:	Animal-Free
Biological Activity Comment:	The activity is determined by the dose-dependent stimulation of mouse 7TD1 cells or B9 cell proliferation and is typically 250 pg/mL or 25 pg/mL or 4×10^6 units/mg or 4×10^7 units/mg.

Target Details

Target:	IL-6 (IL6)
Alternative Name:	IL6 (IL6 Products)

Target Details

Background: Synonyms: Interferon beta-2 (IFN- β 2), B-cell Differentiation Factor (BSF-2), CTL differentiation factor (CDF), HSF, Hybridoma growthfactor, MGI-2

Background: Interleukin 6 (IL-6) is an important pro-inflammatory and anti-inflammatory cytokine expressed by T cells, macrophages and muscle cells. IL-6 signals through a receptor complex containing two receptors, IL-6R α and gp130. IL-6 has an important function in promoting fever and can serve to stimulate an immune response to trauma. IL-6 is often used for growth of hybridoma cell lines. Human IL-6 is active on mouse and rat cells. Recombinant human IL-6 is a non-glycosylated protein, containing 184 amino acids, with a molecular weight of 21 kDa.

UniProt: [P05231](#)

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

Application Notes: Other: User Optimized

Application_Note: Interleukin-6 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Interleukin-6 in immunological assays.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)

Reconstitution_Volume: 5 μ L (5-50 μ L)

Concentration: 0.1 mg/mL

Buffer: Buffer: 0.01 M Sodium Phosphate, pH 7.5

Stabilizer: None

Preservative: Without preservative

Storage: 4 °C, -20 °C

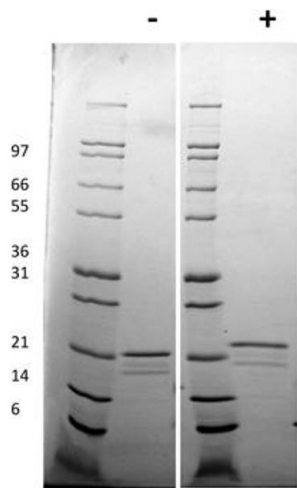
Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier

Handling

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.

Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Interleukin-6 Recombinant Protein (Animal Free) SDS-PAGE of Human Interleukin-6 Animal Free Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human IL-6 AF in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Human IL-6 AF in reducing conditions (+). Human IL-6 AF has a predicted MW of 20.9 kDa.