

Datasheet for ABIN6700008

IL-11 Protein

2 Images

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Overview

Quantity:	10 µg
Target:	IL-11 (IL11)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Interleukin-11 Recombinant Protein
Purification:	Interleukin-11 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:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of T11 or TF-1 cells is typically less than 2.5 ng/mL or 10 ng/mL or 4×10^5 units/mg or 1×10^5 units/mg.

Target Details

Target:	IL-11 (IL11)
Alternative Name:	IL11 (IL11 Products)
Background:	Synonyms: AGIF (Adipogenesis Inhibitory Factor), Oprelvekin Background: Interleukin 11 (IL-11) is a pleotropic cytokine closely related to IL-6 in function, but

Target Details

is overall one of the lesser characterized interleukins. In hematopoietic cell populations, IL-11 is thought to induce megakaryocyte differentiation. In non-hematopoietic populations, IL-11 is thought to be able to stimulate hepatic acute-phase proteins. Human IL-11 can stimulate murine cells. Recombinant human IL-11 is a non-glycosylated protein, containing 179 amino acids, with a molecular weight of 19.3 kDa.

UniProt: [P20809](#)

Pathways: [JAK-STAT Signaling, Negative Regulation of Hormone Secretion](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Interleukin-11 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-11 in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

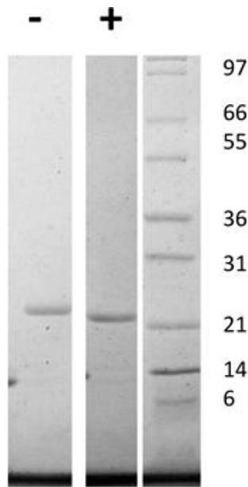
Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 10 µL (10-100 µL)

Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

Preservative: Without preservative

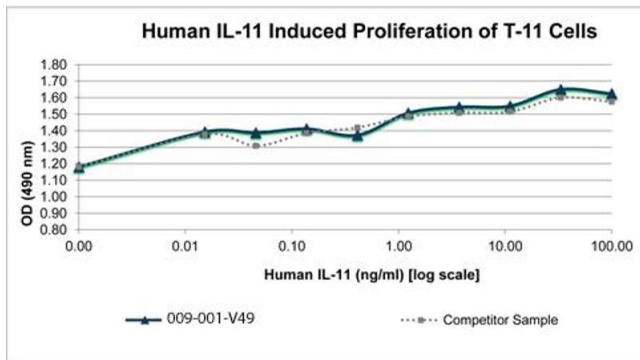
Storage: 4 °C,-20 °C

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 Human Interleukin-11 Recombinant Protein. Lane 1: 1 µg Human IL-11 in non-reducing conditions. Lane 2: 1 µg Human IL-11 in reducing conditions (+). Lane 3: Molecular weight marker. Human IL-11 has a predicted MW of 19 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Interleukin-11 Recombinant Protein Bioactivity of Human Interleukin-11 Recombinant Protein. Serial dilutions of Human IL-11 (starting at 100 ng/mL) were added to T-11 cells growing the presence of 2 ng/mL IL-6. After 91 hours, cell proliferation was measured and the linear portion of the curve was used to calculate the ED50. The ED50 of Human IL-11 is between 0.35-0.52 ng/mL. This value is comparable to the typically expected to be less than 2 ng/mL.