

## Product datasheet

# Recombinant human IL6 protein ab9627

### Overview

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<b>Product name</b>	Recombinant human IL6 protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P05231</a>
<b>Species</b>	Human
<b>Sequence</b>	PVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMC ESSKEALAENNLNLPKMAEKDGCFCQSGFNEETCLVKIITGLLEFEVYLEY LQNRFESEEQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTK LQAQNWQLQDMTTHLILRSFKEFLQSSLRALRQM
<b>Molecular weight</b>	21 kDa
<b>Amino acids</b>	29 to 212

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab9627** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Biological activity</b>	Determined by its ability to stimulate the proliferation of the IL-6 dependent mouse 7TD1 cells. The expected ED <sub>50</sub> is ≤0.1 ng/mL, corresponding to a specific activity of ≥ 1 x 10 <sup>7</sup> units/mg.
<b>Applications</b>	SDS-PAGE Functional Studies Neutralising
<b>Endotoxin level</b>	< 0.100 Eu/μg
<b>Purity</b>	> 98 % SDS-PAGE. Sterile filtered. Greater than 98% pure by SDS-PAGE and HPLC analyses.
<b>Form</b>	Lyophilised

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  n/a  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Centrifuge the vial prior to opening. Reconstitute in 5-10 mM Acetic Acid to a concentration of 0.1-0.5 mg/ml

## General Info

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<b>Function</b>	Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells. Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.
<b>Involvement in disease</b>	Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis. Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.
<b>Sequence similarities</b>	Belongs to the IL-6 superfamily.
<b>Post-translational modifications</b>	N- and O-glycosylated.
<b>Cellular localization</b>	Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
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