

## Product datasheet

# Recombinant cat IL-6 protein ab209269

### Description

<b>Product name</b>	Recombinant cat IL-6 protein	
<b>Biological activity</b>	<p>The biological activity of ab209269 was measured in a cell proliferation assay using the mouse B9 cell line. The ED<sub>50</sub> for this effect is typically 10-20 pg/mL.</p> <p>The biological activity was also measured in 7TD1 cells. The ED<sub>50</sub> for this effect is typically 0.2-0.3 ng/mL.</p>	
<b>Purity</b>	<p>&gt; 95 % SDS-PAGE.</p> <p>ab209269 was purified by Ion-exchange chromatography.</p>	
<b>Expression system</b>	Yeast	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Cat	
<b>Sequence</b>	<p>TPGPLGGDATSNRLPLTPADKMEELIKYILGKISALKKEMC            DNYNKCEDS            KEALAENNLNLPKLAEKDGCFSQGFNQETCLTRITGLQE            FQYMLKFLQD            KYEGDKENAKSVYTSTNVLLQMLKRKGKNQDEVPTIPVPTV            EVGLQLSCSH RRVAEAHNNHLTLRRLEDFLQLRLRAVRIM</p>	
<b>Predicted molecular weight</b>	20 kDa	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab209269** in the following tested applications.

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

<b>Applications</b>	<p>Functional Studies</p> <p>SDS-PAGE</p>
<b>Form</b>	Lyophilized
<b>Additional notes</b>	ab209269 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Constituents: 90% PBS, 10% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

## 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.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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