

## Product datasheet

# Recombinant human IL-23 protein ab106889

### Description

<b>Product name</b>	Recombinant human IL-23 protein	
<b>Biological activity</b>	Biological activity measured by the ability to induce IL-17 secretion by mouse splenocytes.	
<b>Purity</b>	<p>&gt; 95 % SDS-PAGE.</p> <p>Purity greater than 95% by SDS-PAGE gel and HPLC analyses. Sterile filtered through a 0.2 micron filter.</p>	
<b>Endotoxin level</b>	< 0.100 Eu/μg	
<b>Expression system</b>	BTI-TN-5B1-4 cells	
<b>Accession</b>	<a href="#">Q9NPF7</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	<pre> RAVPGGSSPAWTQCQQLSQKLCTLAWSAHLVGHMDLR EEGDEETTNDVP HIQCGDGCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFT GEPSELLPDS PVGQLHASLLGLSLLQPEGHHWETQQIPSLSPSQPWQR LLLRFKILRSL QAFVAVAAARVFAHGAATLSPWELKKDVYVVELDWYPDA PGEMVVLTCDT PEEDGITWTLDSSEVLGSGKTLTIQVKEFGDAGQYTCHK GGEVLSHSL LLHKKEDGWSTDILKDQKEPKNKTFLRCEAKNYSGRFTC WWLTTISTDL TFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSV ECQEDSACPAA EESLPIEVMVDAVHKLKYENYTSSFFIRDIIKPDPPKNLQLK PLKNSRQV EVSWEYPDTWSTPHSYFSLTFCVQVQGGKSKREKKDRVF TDKTSATVICRK NASISVRAQDRYSSSWSEWASVPCS </pre>	
<b>Predicted molecular weight</b>	54 kDa	
<b>Additional sequence information</b>	Recombinant Human IL-23 is a heterodimeric protein consisting of the two subunits, p19 (170 amino acids) and p40 (306 amino acids).	

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab106889** 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>	SDS-PAGE Functional Studies
<b>Form</b>	Lyophilized
<b>Additional notes</b>	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.  Constituent: 2.68% PBS  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 water to a concentration of 0.5-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

## General Info

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<b>Function</b>	Associates with IL12B to form the IL-23 interleukin, an heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to an heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.
<b>Tissue specificity</b>	Secreted by activated dendritic and phagocytic cells and keratinocytes. Also expressed by dermal Langerhans cells (at protein level).
<b>Sequence similarities</b>	Belongs to the IL-6 superfamily.
<b>Developmental stage</b>	Expressed by newborns dendritic cells.
<b>Cellular localization</b>	Secreted. Secreted upon association with IL12B.

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

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