# antibodies - online.com







## IL23A Protein (AA 20-189) (His tag)



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1 mg	
IL23A	
AA 20-189	
Human	
Insect Cells	
Recombinant	
This IL23A protein is labelled with His tag.	
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	
RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGCDP	
QGLRDNSQFC LQRIHQGLIF YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSQLLQPEG	
HHWETQQIPS LSPSQPWQRL LLRFKILRSL QAFVAVAARV FAHGAATLSP	
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
special request, please contact us.	
<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human IL23A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>	
This protein is a made to order protein and will be made for the first time for your order. Our	

made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything

(other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

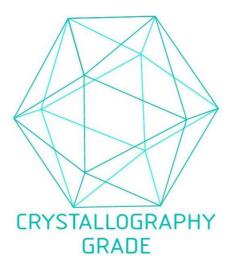
Crystallography grade

#### **Target Details**

Target:	IL23A	
Alternative Name:	IL23A (IL23A Products)	
Background:	Associates with IL12B to form the IL-23 interleukin, a 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 a heterodimeric receptor complex composed of IL12RB1 and	
	IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells	

### **Target Details**

	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. {EC0:0000269 PubMed:11114383,	
	ECO:0000269 PubMed:12023369, ECO:0000269 PubMed:16424222}.	
Molecular Weight:	19.6 kDa Including tag.	
UniProt:	Q9NPF7	
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,	
	Activated T Cell Proliferation	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a	
	guarantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process