

# Active Recombinant Mouse Interleukin 23, Alpha Subunit P19

**Cat. No.** II23a-651M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse IL23a protein was expressed in <i>Spodoptera frugiperda</i> . Met23-Ser335 (N-terminus), Leu20-Ala196 (C-terminus).
<b>Species</b>	Mouse
<b>Source</b>	<i>S. frugiperda</i>
<b>Protein Length</b>	23-335;20-196 a.a.
<b>Description</b>	IL23a is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL23a, and a p40 subunit that is shared with IL-12. The IL23a homology to the p35 subunit of IL-12, as well as to other single chain cytokines such as IL-6 and IL-11. The p40 subunit is homologous to the extracellular domains of the hematopoietic cytokine receptors. Mouse p19 cDNA encodes a 196 amino acid residue (aa) precursor protein with a putative 19 aa signal peptide and 177 aa mature protein. Human and mouse IL23a share 70% aa sequence identity. Although p19 is expressed by activated macrophages, dendritic cells, T cells, and endothelial cells, only activated macrophages and dendritic cells express p40 concurrently to produce IL23a.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Met23
<b>Molecular Weight</b>	57 kDa

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Activity</b>	Measured by its ability to induce IL-17 secretion by mouse splenocytes. The ED 50 for this effect is typically 0.05-0.25 ng/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	66 kDa, reducing conditions.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	IL23a interleukin 23, alpha subunit p19 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	IL23a
<b>Synonyms</b>	IL23a; interleukin23, alpha subunit p19; p19; IL-23; interleukin-23 subunit alpha; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin-23 subunit p19
<b>Gene ID</b>	83430
<b>mRNA Refseq</b>	NM_031252
<b>Protein Refseq</b>	NP_112542

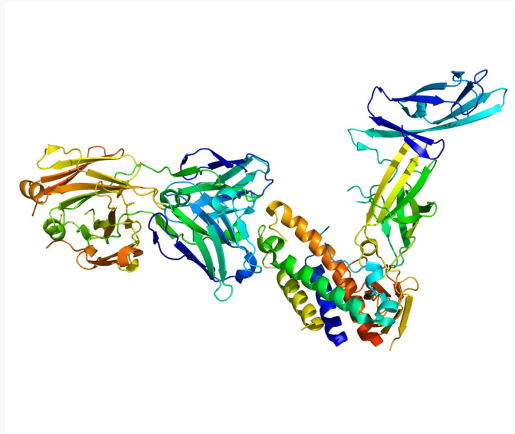
 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>UniProt ID</b>	Q9EQ14
<b>Chromosome Location</b>	10
<b>Pathway</b>	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway; Pertussis; Rheumatoidarthritis; Tuberculosis
<b>Function</b>	cytokine activity;contributes_to interleukin-23 receptor binding; protein binding

Rendering based on  
PDB 3D85.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA