

Active Recombinant Mouse Interleukin 23, Alpha Subunit P19

Cat. No. IL23a-651M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL23a protein was expressed in <i>Spodoptera frugiperda</i> . Met23-Ser335 (N-terminus), Leu20-Ala196 (C-terminus).
Species	Mouse
Source	<i>S. frugiperda</i>
Protein Length	23-335; 20-196 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Met23
Molecular Weight	57 kDa

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Activity	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.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	66 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	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

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

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UniProt ID	Q9EQ14
Chromosome Location	10
Pathway	Cytokine-cytokinereceptor interaction; Jak-STAT signaling pathway; Pertussis; Rheumatoidarthritis; Tuberculosis
Function	cytokine activity;contributes_to interleukin-23 receptor binding; protein binding
Rendering based on PDB 3D85.	