IL-23 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	IL-23, Recombinant Protein
Full Product Name	Recombinant Mouse IL-23
Product Gene Name	IL-23 recombinant protein
Product Synonym Names	SGRF; IL-23p19; CLMF p40; IL-12 subunit p40; NKSF2
Sequence	Val22-Ala1 96&Met23-S er335
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, 5% Trehalose, 5% Mannitol, 0.01% Tween80, pH7.4
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	22,071 Da
3D Structure	ModBase 3D Structure for Q9EQ14
Species	Mouse
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal His Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for IL-23 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for IL-23 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for IL-23 recombinant protein	MBS7621671 is a recombinant protein targeting IL-23. Also known as Recombinant Mouse IL-23. Host: Mammalian Cells.
Other Notes	Small volumes of IL-23 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-23. It may not necessarily be applicable to this product.

NCBI GI #	81881842
NCBI GeneID	83430
NCBI Accession #	Q9EQ14.1
UniProt Primary Accession #	Q9EQ14

UniProt Secondary Accession #	P43432
UniProt Related Accession #	Q9EQ14
NCBI Official Full Name	Interleukin-23 subunit alpha
NCBI Official Synonym Full Names	interleukin 23, alpha subunit p19
NCBI Official Symbol	Il23a
NCBI Official Synonym Symbols	p19; IL-23
UniProt Protein Name	Interleukin-23 subunit alpha
UniProt Synonym Protein Names	Interleukin-23 subunit p19; IL-23p19
UniProt Gene Name	Il23a
UniProt Synonym Gene Names	IL-23 subunit alpha; IL-23-A; IL-23p19
UniProt Entry Name	IL23A_MOUSE
NCBI Protein Information	interleukin-23 subunit alpha; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin-23 subunit p19
UniProt Comments for IL-23	IL23A: 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 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. Belongs to the IL-6 superfamily. Protein type: Secreted; Cytokine; Secreted, signal peptide Cellular Component: extracellular space; extracellular region Molecular Function: protein binding; cytokine activity; interleukin-23 receptor binding Biological Process: positive regulation of granulocyte macrophage colony-stimulating factor production; positive regulation of T-helper 1 type immune response; negative regulation of interleukin-10 production; positive regulation of interleukin-12 production; positive regulation of T cell mediated cytotoxicity; positive regulation of osteoclast differentiation; tissue remodeling; positive regulation of NK T cell proliferation; positive regulation of tyrosine phosphorylation of Stat4 protein; defense response to Gram-negative bacterium; positive regulation of activated T cell proliferation; positive regulation of interleukin-10 production; positive regulation of tyrosine phosphorylation of Stat3 protein; T cell proliferation; positive regulation of T cell proliferation; inflammatory response; defense response to virus; positive regulation of memory T cell differentiation; positive regulation of interleukin-17 production; positive regulation of natural killer cell proliferation; positive regulation of NK T cell activation; immune system process; positive regulation of tumor necrosis factor production; regulation of tyrosine phosphorylation of Stat1 protein; positive regulation of interferon-gamma production; positive regulation of tyrosine phosphorylation of Stat5 protein; innate immune response; positive regulation of transcription from RNA polymerase II promoter; immune response; positive regulation of defense response to virus by host
Research Articles on IL-23	**1.** suggest that Hmgb1-IL-23-IL-17-IL-6-Stat3 axis plays a pivotal role in tumor development in murine models of melanoma
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