



Recombinant Human IL-23

20160326BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-397S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	51561
Synonyms:	IL-23

IL-23 is a proinflammatory, heterodimeric protein composed of two subunits: a unique p19 subunit and a p40 subunit that is shared with IL-12. IL-23 is secreted by activated dendritic cells and macrophages, and signals through a receptor comprised of IL-23R complexed with IL-12Rβ2. IL-23 has been shown to enhance proliferation of memory T cells. It also stimulates the production of IFN-γ in NK cells, induces IL-17 production, and drives Th17 mediated responses. Recombinant IL-23 is a 53.5 kDa heterodimeric protein consisting of two subunits, p19 (170 amino acids) and p40 (306 amino acids).

Sequence

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RAVPGGSSFA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE  
GDEETTNDVP HIQCGDGDGP QGLRDNSQFC LQRIHQGLIF  
YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSQQLLQPEG  
HHWETQQIPS LSFSQPWQRL LRFKILRSL QAFVAVAARV  
FAHGAATLSP IWELKKDVYV VELDWYDPAP GEMVVLTCDT  
PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GD
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Database References

Protein RefSeq:	NP_057668.1
Uniprot ID:	Q9NPF7
mRNA RefSeq:	NM_016584.2

Product Specifications

Expressed in	Insect cells
Purity	> 95% by SDS-PAGE & HPLC analyses
Structural Information	heterodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	Lyophilized from 1x PBS, pH 7.2
Length (aa):	476
MW:	53.5 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: 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.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Measured by its ability to induce IL-17 secretion by mouse splenocytes.