# Active Recombinant Full Length Human IL23A Protein, C-Flag-tagged

**Cat. No.** IL23A-109HFL **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Full Length Human IL23A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | This gene encodes a subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Bio-activity** | Protease substrate<br>Cell treatment<br>MS digestion |
| **Molecular Mass** | 18.6 kDa |
| **AA Sequence** | MLGSRAVMLLLLLPWTAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHPLVGHM |

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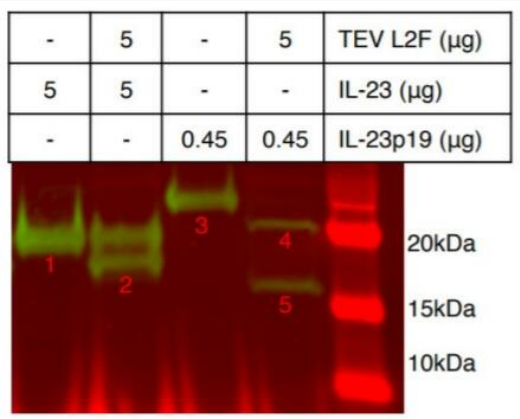
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|---|---|
| | DLREEGDEETTNDVPH IQCGDGCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTG EPSLLPDSPVGQLHASLLGLSQLLQPEGH HWETQQMPSLSPSQPWQRLLLRFKILRNLQAFVAVAARVFAHGAATLSPTRTRPLE QKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Families** | Druggable Genome, Secreted Protein |
| **Protein Pathways** | Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway |
| **Full Length** | Full L. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | IL23A interleukin 23 subunit alpha [ Homo sapiens (human) ] |
| **Official Symbol** | IL23A |
| **Synonyms** | P19; SGRF; IL-23; IL-23A; IL23P19 |

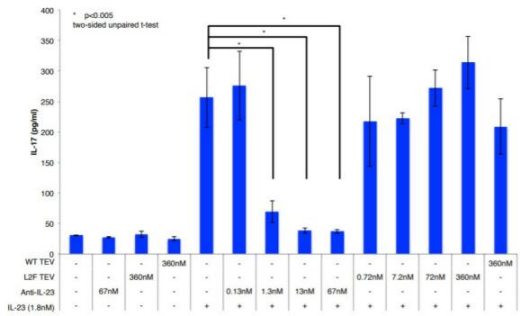
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| | |
|---|---|
| **Gene ID** | 51561 |
| **mRNA Refseq** | NM_016584.3 |
| **Protein Refseq** | NP_057668.1 |
| **MIM** | 605580 |
| **UniProt ID** | Q9NPF7 |

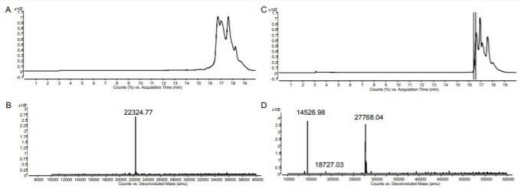



Identification of IL-23 cleavage sites by Western blot. IL-23 heterodimer (IL-23) and IL-23 monomer (IL-23p19) were incubated with or without TEV L2F. Reaction mixtures were subjected to Western blot with an anti-IL-23p19 monoclonal antibody.

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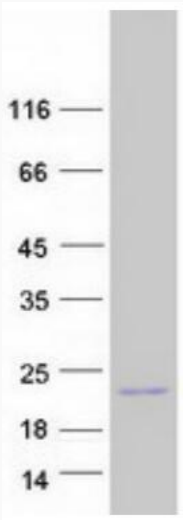



Cultured mouse mononuclear splenocytes secrete IL-17 in response to human IL-23 in the media. Addition of antibodies that neutralize IL-23 to the cell culture media prevents this response.




Identification of two cleavage sites of TEV L2F protease within IL-23 monomer by mass spectrometry.

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Coomassie blue staining of purified IL23A protein.

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