

Active Recombinant Human IL23A Protein, Myc/DDK-tagged

Cat. No. IL23A-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human interleukin 23, alpha subunit p19 (IL23A) with a C-Myc/DDK tag was expressed HEK293T.
Species	Human
Source	HEK293
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.
Bio-activity	Protease substrate, Cell treatment, MS digestion
Molecular Mass	18.6 kDa
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.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name IL23A interleukin 23 subunit alpha [Homo sapiens (human)]

Official Symbol IL23A

Synonyms IL23A; interleukin 23 subunit alpha; P19; SGRF; IL-23; IL-23A; IL23P19; interleukin-23 subunit alpha; IL-23 subunit alpha; IL-23-A; IL-23p19; JKA3 induced upon T-cell activation; interleukin 23 p19 subunit; interleukin 23, alpha subunit p19; interleukin-23 subunit p19; interleukin-six, G-CSF related factor

Gene ID 51561

mRNA Refseq NM_016584

Protein Refseq NP_057668

MIM 605580

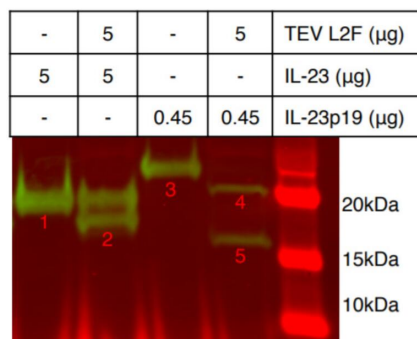
UniProt ID Q9NPF7

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Identification of IL-23 cleavage sites by Western blot.



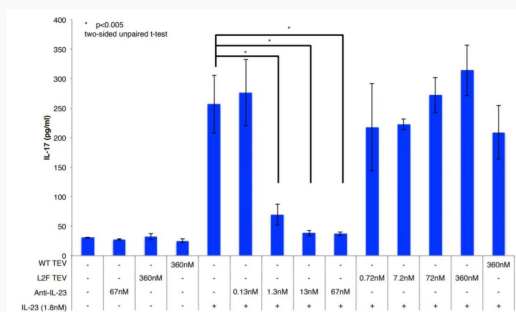
IL-23 heterodimer (IL-23) and IL-23 monomer (IL-23p19) were incubated with or without TEV L2F. Reaction mixtures were subjected to Western blot with an anti-IL-23p19 monoclonal antibody.

SDS-PAGE

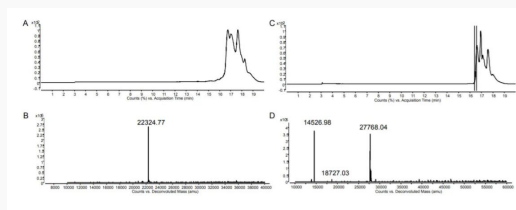


116 —
66 —
45 —
35 —
25 —
18 —
14 —

Coomassie blue staining of purified IL23A protein. The protein was produced from HEK293T cells transfected with IL23A cDNA clone



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.