

Recombinant Human IL23A Protein, Fc-tagged

Cat. No. IL23A-451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL23A (NP_057668.1) (Met1-Pro189) was expressed with the Fc region of human IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Pro189
Description	IL-23, which is mainly secreted by antigen-presenting cells, is a member of the IL-12 family, which includes IL-12, IL-27, and IL-35[10]. IL-23 is a heterodimeric cytokine, comprised a unique p19 subunit and p40 subunit, the latter of which is shared with IL-12. The receptor for IL-23 consists of IL-23R and IL-12R β 1, the latter of which is also characteristic of IL-12. IL-23 is essential for Th17 differentiation, expansion, and survival by binding to its receptor, thereby activating the signaling pathway [11,12]. Many studies revealed that the IL-23/Th17 pathway is implicated in the pathophysiology of various autoimmune diseases, such as autoimmune arthritis[13], primary biliary cirrhosis[14], and inflammatory bowel disease[15].
Predicted N Terminal	Arg 20
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human IL23A consists of 408 amino acids and predicts a molecular

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	mass of 45.4 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL23A interleukin 23, alpha subunit p19 [Homo sapiens]
Official Symbol	IL23A
Synonyms	IL23A; interleukin 23, alpha subunit p19; interleukin-23 subunit alpha; IL 23; IL 23A; IL23P19; interleukin six; G CSF related factor; P19; SGRF; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin 23 p19 subunit; interleukin-23 subunit p19; JKA3 induced upon T-cell activation; interleukin-six, G-CSF related factor; IL-23; IL-23A; MGC79388;
Gene ID	51561
mRNA Refseq	NM_016584
Protein Refseq	NP_057668

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MIM	605580
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UniProt ID	Q9NPF7
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