

Active Recombinant Human IL23A & Mouse IL12B Heterodimer Protein, His-tagged

Cat. No. IL23A&IL12B-335HM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL23A & Mouse IL12B Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Arg 20 - Pro 189 (IL23A) & Met 23 - Ser 335 (IL12B) (Accession # NP_057668 (IL23A) & NP_032378 (IL12B)). Predicted N-terminus: His (IL23A) & Met 23 (IL12B). Human IL-23 alpha & Mouse IL-12 beta Heterodimer Protein, produced by co-expression of IL-23 alpha and IL-12 beta, has a calculated MW of 19.5 kDa (IL-23 alpha) and 35.8 kDa (IL-12 beta). Subunit IL-23 alpha is fused with a polyhistidine tag at the N-terminus and subunit IL-12 beta contains no tag. The predicted N-terminus is His (IL23A) & Met 23 (IL12B). The reducing (R) protein migrates as 20 kDa (IL-23 alpha) and 45-50 kDa (IL-12 beta) respectively due to glycosylation.
Species	Human & Mouse
Source	HEK293
ProteinLength	Arg 20 - Pro 189 (IL23A) & Met 23 - Ser 335 (IL12B)
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Recombinant Human IL23A & Mouse IL12B Heterodimer Protein, His-tagged at 10 µg/mL (100 µL/well) can bind Human IL23R with a linear range of 0.039-0.625 µg/mL (Routinely tested).

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Recombinant Human IL23A & Mouse IL12B Heterodimer Protein, His-tagged stimulates secretion of IL-17 by mouse spleen cells. The ED50 for this effect is 0.0069-0.0426 ng/ml (Routinely tested).

Cell based assay shows that the secretion of IL-17 induced by Recombinant Human IL23A & Mouse IL12B Heterodimer Protein, His-tagged is inhibited by increasing concentration of the anti-human IL-23 neutralizing antibody. The IC50 is between 0.41-1.012 ng/mL (Routinely tested).

Molecular Mass	19.5 kDa (IL23A) & 35.8 kDa (IL12B)
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Notes	Please avoid repeated freeze-thaw cycles.
Stability	No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name IL23A interleukin 23, alpha subunit p19 [Homo sapiens] & IL12b interleukin 12b [Mus musculus]

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Official Symbol	IL23A & IL12B
Synonyms	IL23A; IL 23; IL 23A; IL23P19; P19; SGRF; IL-23-A; IL-23p19; IL-23; IL-23A; MGC79388; & IL12B; interleukin 12b; CLMF p40; IL-12 p40; p40; IL-12b; IL12p40; IL-12p40;
Gene ID	51561 & 16160
mRNA Refseq	NM_016584 & NM_008352
Protein Refseq	NP_057668 & NP_032378
MIM	605580
UniProt ID	Q9NPF7

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