

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

Cat. No. IL23A&IL12B-336M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Mouse IL23A & IL12B Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Val 22 - Ala 196 (IL23A) & Met 23 - Ser 335 (IL12B) (Accession # Q9EQ14 (IL23A) & NP_032378 (IL12B)). Predicted N-terminus: His (IL23A) & Met 23 (IL12B). Mouse IL-23 alpha & IL-12 beta Heterodimer Protein, produced by co-expression of IL-23 alpha and IL-12 beta, has a calculated MW of 20.5 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 21 kDa (IL-23 alpha) and 45-50 kDa (IL-12 beta) respectively due to glycosylation.

Species

Mouse

Source

HEK293

ProteinLength

Val 22 - Ala 196 (IL23A) & Met 23 - Ser 335 (IL12B)

Form

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Bio-activity

Immobilized Mouse IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free at 2 µg/mL (100 µL/well) can bind Human IL-12 R beta 1, Fc Tag with a linear range of 0.02-0.313 µg/mL.

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Molecular Mass	The protein has a calculated MW of 20.5 kDa (IL-23A) and 35.8 kDa (IL-12B). Subunit IL-23A is fused with a polyhistidine tag at the N-terminus and subunit IL-12B contains no tag. The reducing (R) protein migrates as 19 kDa (IL-23A) and 40-44 kDa (IL-12B) respectively due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL23a interleukin 23, alpha subunit p19 [<i>Mus musculus</i>]
Official Symbol	IL23A
Synonyms	IL23A; interleukin 23, alpha subunit p19; interleukin-23 subunit alpha; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin-23 subunit p19; p19; IL-23;
Gene ID	83430
mRNA Refseq	NM_031252

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Protein Refseq

NP_112542

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