

Active Recombinant Human IL12B & IL12A Protein, His & Flag-tagged

Cat. No. IL12B&IL12A-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human IL12B & IL12A Protein, His & Flag-tagged is expressed from human 293 cells (HEK293). It contains AA Ile 23 - Ser 328 (IL-12B) and Arg 23 - Ser 219 (IL-12A) (Accession # P29460-1 (IL12B) and P29459-1 (IL12A)). Predicted N-terminus: Ile 23 (IL12B) and Arg 23 (IL12A). Human IL-12B & IL-12A Heterodimer Protein is produced by co-expression of IL-12B and IL-12A, has a calculated MW of 36.6 kDa (IL-12B) and 23.8 kDa (IL-12A). Subunit IL-12B is fused with polyhistidine tag at the C-terminus and subunit IL-12A is fused with flag tag at the C-terminus. The predicted N-terminus is Ile 23 (IL12B) and Arg 23 (IL12A). The reducing (R) heterodimer protein migrates as 43 kDa and 45 kDa (IL12B) and 35-40 kDa (IL12A) respectively due to glycosylation.

Species Human

Source HEK293

ProteinLength AA Ile 23 - Ser 328 (IL-12B) & Arg 23 - Ser 219 (IL-12A)

Form Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Bio-activity Recombinant Human IL12B & IL12A Protein, His & Flag-tagged at 0.5 µg/mL (100 µL/well) can bind Anti-IL23A & IL12B MAb with a linear range of 0.2-2 ng/mL (QC tested).

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Molecular Mass	36.6 kDa (IL-12B) & 23.8 kDa (IL-12A)
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% 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	IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens] & IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [Homo sapiens]
Official Symbol	IL12B & IL12A
Synonyms	IL12B; NKSF2; CLMF; CLMF2; p40; IL 12B; IL12; NKSF; CLMF p40; IL-12B; & IL12A; NKSF1; CLMF; p35; IL 12; subunit p35; IL 12A; IL35 subunit; NFSK; CLMF p35; IL-12 subunit p35; IL-12A;

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Gene ID	3593 & 3592
mRNA Refseq	NM_002187 & NM_000882
Protein Refseq	NP_002178 & NP_000873
MIM	161561 & 161560
UniProt ID	P29460 & P29459

