

Active Recombinant Human IL12B&IL12A protein, His-Avi&Flag-tagged, Biotinylated

Cat. No. IL12B&IL12A-0222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human IL12B&IL12A protein(Ile23-Ser328(IL-12B)&Arg23-Ser219(IL-12A)), fused with His and Avi and Flag tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	23-328;23-219 a.a.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human IL-12 R beta 1, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-12B&IL-12A Heterodimer Protein, His,Avitag&Flag Tag with a linear range of 0.039-0.625 µg/mL.Immobilized Biotinylated Human IL-12B&IL-12A Heterodimer Protein, His,Avitag&Flag Tag at 1 µg/mL (100 µL/well)on streptavidin precoated (0.5 µg/well) plate. can bind Monoclonal Anti-Human IL23A&IL12B P40 domain Antibody, Human IgG1 with a linear range of 0.2-1 ng/mL.Immobilized Human IL-12 R beta 2, His Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-12B&IL-12A Heterodimer, His,Avitag&Flag Tag with a linear range of 0.003-0.3 µg/mL.
Molecular Mass	Biotinylated Human IL-12B&IL-12A Heterodimer Protein, His,Avitag&Flag Tag is produced by co-expression of IL-12B and IL-12A, has a calculated MW of 38.3 kDa

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(IL-12B) and 23.8 kDa (IL-12A). Subunit IL-12B is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag) and subunit IL-12A is fused with flag tag at the C-terminus. The reducing (R) heterodimer protein migrates as 40-50 kDa (IL12B) and 32-35 kDa (IL12A) respectively due to glycosylation.

Proteinlength Ile23-Ser328(IL-12B)&Arg23-Ser219(IL-12A)

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >90% as determined by SDS-PAGE.

Storage For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C 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.

Conjugation Biotin

GENE INFORMATION

Gene Name IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens]

Official Symbol IL12B

Synonyms IL12B; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40); NKSF2; interleukin-12 subunit beta; CLMF; CLMF2; cytotoxic lymphocyte maturation factor 2; p40; IL 12B; IL12; subunit p40; interleukin

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12; interleukin 12 beta chain; natural killer cell stimulatory factor; 40 kD subunit; natural killer cell stimulatory factor 2; NKSF; CLMF p40; IL-12 subunit p40; IL12, subunit p40; interleukin 12, p40; interleukin-12 beta chain; NK cell stimulatory factor chain 2; cytotoxic lymphocyte maturation factor 40 kDa subunit; natural killer cell stimulatory factor, 40 kD subunit; IL-12B;

Gene ID	3593
mRNA Refseq	NM_002187
Protein Refseq	NP_002178
MIM	161561
UniProt ID	P29460