

Active Recombinant Human IL23A&IL12B Protein, His-tagged, Low Endotoxin

Cat. No. IL23A&IL12B-209H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL23A&IL12B Protein(NP_002178.2&NP_057668.1)(Met1-Ser328&Arg20-Pro189) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-328 aa&20-189 aa
Form	Supplied as sterile PBS, pH 7.4.
Bio-activity	1.Refer to: Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 0.1-1ng/mL. 2.Refer to: Immobilized Recombinant Human IL23R / IL23 Receptor Protein (ECD, Fc Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Human IL-23 (IL12B & IL23A Heterodimer) Protein (His Tag), the EC50 is 15-60 ng/mL . 3.Refer to: Immobilized Recombinant Human IL-23 (IL12B & IL23A Heterodimer) Protein (His Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Human IL12RB1 Protein (ECD, Fc Tag), the EC50 is 25-80 ng/mL . 4.Refer to: Immobilized Anti-IL-12 & IL-23 (P40)(Research Grade Ustekin*mab Biosimilar) at 2 µg/mL (100 µL/well) can bind Recombinant Human IL-23 (IL12B & IL23A Heterodimer) Protein (His Tag), the EC50 is 6-18 ng/mL . 5.Refer to: Recombinant Human IL-23 Receptor Protein, hFc Tag captured on Protein A chip can bind

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Recombinant Human IL-23 Protein, His Tag with an affinity constant of 0.6961 nM as determined in an SPR assay. 6.Refer to: Loaded Recombinant Human IL-23 Receptor Protein, hFc Tag on proA Biosensor, can bind Recombinant Human IL-23 Protein, His Tag with an affinity constant of 1.25 nM as determined in BLI assay.

Molecular Mass The recombinant Human IL23(IL23A&IL12B) consists of 502 amino acids and predicts a molecular mass of 55.8 kDa. The band migrates approximately 50-60 kDa in the SDS-PAGE under reducing conditions.

Endotoxin < 0.5 EU per mg protein.

Purity ≥ 90 % as determined by SDS-PAGE.

Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. 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 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 [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;

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Gene ID	51561
mRNA Refseq	NM_016584
Protein Refseq	NP_057668
MIM	605580
UniProt ID	Q9NPF7
Gene Name 2	IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [Homo sapiens]
Official Symbol 2	IL12B
Synonyms 2	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 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 2	3593
mRNA Refseq 2	NM_002187
Protein Refseq 2	NP_002178
MIM 2	161561

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UniProt ID 2

P29460

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