

Active Recombinant Human IL23A Protein

Cat. No. IL23A-967H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IL-23 consists of two subunits linked via a disulfide bond: P19, the region of Ala21- Pro189) from Accession# NP_057668, and P40, the region of Ile 23-Ser 328) from Accession# NP_002178.2, was expressed in insect cells.

Species Human

Source Insect Cells

ProteinLength 21-189;23-328 a.a.

Description This gene encodes a subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells.

Form 1 x PBS

Bio-activity The ED50 is 0.2 - 0.8 ng/ml, corresponding to a specific activity of 5 - 1.25 x 10⁶ units/mg determined by mouse splenocyte IL-17A secretion, which is induced by hIL-23 in a dose dependent manner.

Molecular Mass 53.3 kDa

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Endotoxin	Less than 0.01 ng per g protein as determined by the LAL method.
Purity	>95%, as determined by Coomassie stained SDS-PAGE.
Concentration	Protein formulated and vialled at >50 ug/mL in specified buffer
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;
Gene ID	51561
mRNA Refseq	NM_016584
Protein Refseq	NP_057668
MIM	605580
UniProt ID	Q9NPF7

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