

# Recombinant human IL-23 protein

Catalog Number: ATGP3598

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

23-328aa(p40)/20-189aa(p19)

### UniProt No.

P29460(p40)/Q9NPF7(p19)

### NCBI Accession No.

NP\_002178(p40)NP\_057668(p19)

### Alternative Names

Interleukin-12 subunit beta / Interleukin-23 subunit alpha, CLMF, CLMF2, IL-12B, IMD28, IMD29, NKSF, NKSF2/ IL-23, IL-23A, IL23P19, P19, SGRF

## PRODUCT SPECIFICATION

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### Molecular Weight

34.6 kDa (p40, 306aa)

19.5 kDa (p19, 176aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

IL23 p40 and p19, also known as interleukin-12 subunit beta/interleukin-23 subunit alpha, is a heterodimeric cytokine composed of two disulfide-linked subunit, a p19 subunit that is unique to IL23, and a p40 subunit that is

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shared with IL12. The p19 subunit has homology to the p35 subunit of IL12, as well as to other single chain cytokines sub as IL6 and IL11. It is produced by macrophages and B lymphocytes and has multiple effects on T-cells and NK cells, including stimulation of cytotoxic activity, proliferation, and promotion of Th1 development as well as IFN-gamma and TNF production. Recombinant human IL23 p40 and p19, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

IL12B(p40)

IWELKKDVVY VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL  
LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERV  
DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW  
STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYSSSSWSEW ASVPCS

IL23A(p19)

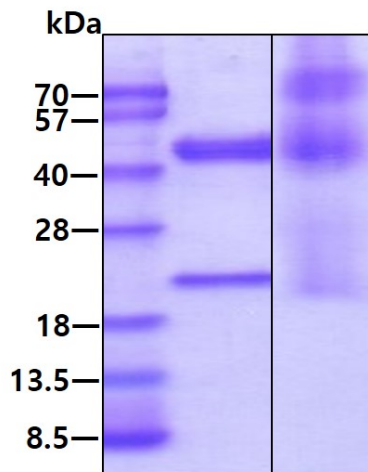
RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGC DP QGLRDNSQFC LQRIHQGLIF  
YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSPLLQPEG HHWETQQIPS LSPSQPWQRL LLRFKILRSL QAFVAVAARV  
FAHGAATLSP <HHHHHH>

## General References

Oppmann B., et al, (2000) Immunity. 13:715-25.  
Parham C., et al, (2002) J. Immunol. 168:5699-708.

## DATA

### SDS-PAGE



3ug by SDS-PAGE visualized by coomassie blue stain.  
Lane 1 : reducing condition  
Lane 2 : non-reducing condition