

# Recombinant human IL-38/IL-1F10 protein

Catalog Number: ATGP3044

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-152aa

### UniProt No.

Q8WWZ1

### NCBI Accession No.

NP\_115945.3

### Alternative Names

Interleukin 1 family member 10, Family of interleukin 1-theta, FIL1 theta, Interleukin-1 HY2, IL-1HY2, Interleukin-1 theta, IL-1 theta, Interleukin-38, IL-38, FIL1T, Interleukin-1 receptor antagonist FKSG75

## PRODUCT SPECIFICATION

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### Molecular Weight

16.9 kDa (152aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

Non-Tagged

### 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

IL1F10 also known as interleukin-1 family member 10. IL1F10 is cytokine with immunomodulatory activity. Alone, does not induce cytokine production, but reduces IL22 and IL17A production by T-cells in response to heat-killed *Candida albicans*. It reduces IL36G-induced production of IL8 by peripheral blood mononuclear cells. It increases

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IL6 production by dendritic cells stimulated by bacterial lipopolysaccharides (LPS) and ligand for IL-36R/IL1RL2. Recombinant human IL1F10 was expressed in E. coli and purified by using conventional chromatography techniques

### Amino acid Sequence

MCSLPMARYY IIKYADQKAL YTRDGQLLVG DPVADNCCAE KICTLPNRGL DRTKVPIFLG IQGGSRCLAC VETEEGPSLQ  
LEDVNIIEELY KGGEEATRFT FFQSSSGSAF RLEAAAWPGW FLCGPAEPQQ PVQLTKESEP SARTKFYFEQ SW

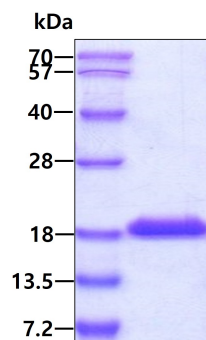
### General References

Bensen J.T., et al. (2001) J. Interferon Cytokine Res. 21:899-904.

van de Veerdonk F.L., et al. (2012) Proc. Natl. Acad. Sci. u.S.A. 109:3001-3005.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.