

# Recombinant human IL-19 protein

Catalog Number: ATGP4024

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

25-177aa

### UniProt No.

Q9UHD0

### NCBI Accession No.

NP\_037503.2

### Alternative Names

Interleukin-19, IL-19, Melanoma differentiation-associated protein-like protein, NG.1, ZMDA1, MDA1, IL-10C, IL19, Interleukin19, Macrophagleukin-19, IL-19, 2

## PRODUCT SPECIFICATION

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### Molecular Weight

19.1 kDa (164aa)

### Concentration

0.5mg/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

IL-19, also known as Interleukin-19, is a member of the IL-10 family of related cytokines, which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. This protein is an immunosuppressive cytokine that is responsible for both cell type-specific and system-specific down-regulation of inflammation, because it up-regulates IL-6 and TNF- $\alpha$ , and

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induces apoptosis through TNF- $\alpha$ . It binds a receptor complex consisting of the IL-20 receptor alpha (IL-20 R1) and the IL-20 receptor beta (IL-20 R2). This receptor complex is also shared by IL-20 and IL-24. IL-19-deficient animals was associated with reduced numbers of IL-6-producing macrophages in the inflamed colonic lamina propria. It may contribute to the pathogenesis of inflammatory bowel disease. Recombinant human IL-19, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

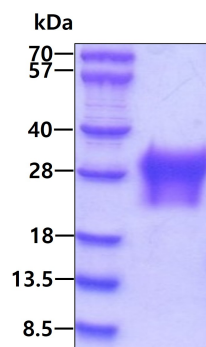
<DGSHM>LRRCL ISTDMHHIEE SFQEIKRAIQ AKDTFPNVTI LSTLETQII KPLDVCCVTK NLLAFYVDRV FKDHQEPNPK ILRKISSIAN SFLYMQKTLR QCQEQRQCHC RQEATNATRV IHDNYDQLEV HAAAIKSLGE LDVFLAWINK NHEVMFSA<HH HHHH>

## General References

- Gallagher, G. et al. (2000) Genes Immun. 1:442-450
- Gallagher, G. et al. (2004) Int. Immunopharmacol. 4:615-626.
- Pestka, S. et al. (2004) Annu. Rev. Immunol. 22:929-979.
- Dumoutier, L. et al. (2001) J. Immunol. 167:3545-3549.
- Parrish-Novak, J. et al. (2002) J. Biol. Chem. 277:47517-47523.
- Jordan, W.J. et al. (2005) Eur. J. Immunol. 35:1576-1582.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain