

# Recombinant human IL-32 protein

Catalog Number: ATGP0266

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-131aa

**UniProt No.**

P24001

**NCBI Accession No.**

NP\_001012651.1

**Alternative Names**

Interleukin 32, Natural killer cells protein 4, Natural killer cell transcript 4, NK4, Tumor necrosis factor alpha-inducing factor, TAIF, TAIFb, TAIFd

## PRODUCT SPECIFICATION

**Molecular Weight**

19.1 kDa (168aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**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

**Description**

Interleukin 32 isoform A belongs to cytokine family. This protein expression is increased after the activation of T-cells by mitogens or the activation of NK cells by IL-2. It has the ability to induce proinflammatory cytokines such as TNFalpha and IL8 in THP1 cells, and activates typical cytokine signaling pathways involving NFkB and p38. IL-

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32 can also support osteoclast differentiation but not osteoclast activation by regulating the MAPK/ERK pathway and the actin cytoskeleton. Recombinant human Interleukin 32, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

### Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MCF PKVLSDDMKK LKARMHQAIE RFYDKMQNAE  
SGRGQVMSSL AELEDDFKEG YLETVAAYYE EQHPELTPLL EKERDGLRCR GNRSPVPDVE DPATEEPGES FCDKSYGAPR  
GDKEELTPQK CSEPQSSK

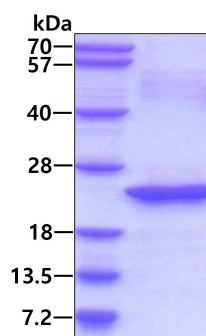
### General References

Kim SH., et al. (2005). *Immunity*. 22(1):131-42

Kobayashi H., et al. (2009). *Int J Radiat Oncol Biol Phys*. 74(5):1573-9

## DATA

### SDS-PAGE



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