

# Recombinant human NCF4 protein

Catalog Number: ATGP1769

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-339aa

### UniProt No.

Q15080

### NCBI Accession No.

NP\_000622

### Alternative Names

Neutrophil cytosol factor 4, NCF, P40PHOX, SH3PXD4

## PRODUCT SPECIFICATION

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### Molecular Weight

41.1 kDa (359aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### 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

NCF4 is a cytosolic regulatory of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. Recombinant human NCF4 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

## Amino acid Sequence

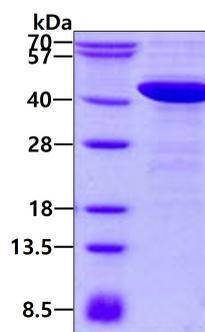
<MGSSHHHHHH SSGLVPRGSH> MAVAQQLRAE SDFEQLPDDV AISANIADIE EKRGTSHFV FVIEVKTKGG SKYLIYRRYR  
QFHALQSKLE ERFGPDSKSS ALACTLPTLP AKVYVGVKQE IAEMRIPALN AYMKSLLSLP VVVLMDDEDVR IFFYQSPYDS  
EQVPQALRRL RPRTRKVKS SVSQGNSVDRM AAPRAEALFD FTGNSKLELN FKAGDVIFLL SRINKDWLEG TVRGATGIFP  
LSFVKILKDF PEEDDPTNWL RCYYYEDTIS TIKDIAVEED LSSTPLLKDL LELTRREFQR EDIALNYRDA EGDVLRLLSD  
EDVALMVRQA RGLPSQKRLF PWKLHITQKD NYRVYNTMP

## General References

Eglinton, T.W., et al. (2012) Am. J. Gastroenterol. 107 (4), 589-596

## DATA

### SDS-PAGE



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