

# Recombinant Human Neutrophil cytosol factor 1/NCF1 Protein

Catalog No.: RP03285 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	653361	P14598

### Tags

C-His

### Synonyms

NCF1; NOXO2; SH3PXD1A; NCF-47K;  
NCF-1; p47-phox; Nox organizer 2;  
Neutrophil cytosol factor 1; Neutrophil  
NADPH oxidase factor 1; 47 kDa  
neutrophil oxidase factor; 47 kDa  
autosomal chronic granulomatous  
disease protein

## Product Information

Source	Purification
E.coli	> 95% by SDS- PAGE.

Calculated MW	Observed MW
45.6 kDa	45-50 kDa

### Endotoxin

< 1.0 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from a 0.22 μm filtered  
solution of 20 mM Tris-HCl, 100 mM  
NaCl, 1 mM DTT, pH 8.0. Contact us for  
customized product form or formulation.

### Reconstitution

Please contact us for reconstitution  
instructions.

## Contact

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## Background

NCF1 is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This protein is essential for activation of the NADPH oxidase complex, which is essential for superoxide production. It cooperates with NCF2 to form a core association in the complex, interacting with NCF4, CYBB and CYBA. Mutations in the NCF1 gene have been associated with chronic granulomatous disease.

## Basic Information

### Description

Recombinant Human Neutrophil cytosol factor 1/NCF1 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Val390) of human Neutrophil cytosol factor 1/NCF1 (Accession #P14598) fused with His tag at the C-terminus.

### Bio-Activity

#### Storage

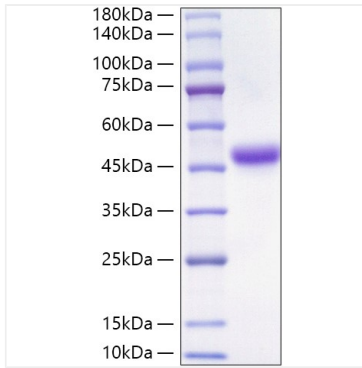
Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Neutrophil cytosol factor 1/NCF1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-50 kDa.