

Recombinant Human Neutrophil Cytosolic Factor 4, 40kDa, His-tagged

Cat. No. NCF4-7201H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NCF4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 41.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-339aa
Description	NCF4 is a cytosolic regulatory of the superoxide-producing phagocyte NADPH-oxidase, amulticomponent 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-integratedcatalytic core of the enzyme system.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT
Molecular Mass	41.1 kDa (359aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHMAVAQQLRAE SDFEQLPDDV AISANIADIE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EKRGFTSHFV FVIEVKTKGG SKYLIYRRYR QFHALQSKLE ERFGPDSKSS
 ALACTLPTLP AKVYVGVKQE IAEMRIPALN AYMKSLLSLP VVWLMDDEDVR
 IFFYQSPYDS EQVPQALRRL RPRTRKVKS SVSPQGNSVDRM AAPRAEALFD
 FTGNSKLELN FKAGDVIFLL SRINKDWLEG TVRGATGIFP LSFVKILKDF
 PEEDDPTNWL RCYYYEDTIS TIKDIAVEED LSSTPLLKDL LELTRREFQR
 EDIALNYRDA EGDLVRLSD EDVALMVRQA RGLPSQKRLF PWKLHITQKD
 NYRVYNTMP

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [NCF4 neutrophil cytosolic factor 4, 40kDa \[Homo sapiens \]](#)

Official Symbol NCF4

Synonyms NCF4; neutrophil cytosolic factor 4, 40kDa; neutrophil cytosolic factor 4 (40kD); neutrophil cytosol factor 4; neutrophil NADPH oxidase factor 4; p40phox; SH3PXD4; NCF-4; p40-phox; SH3 and PX domain-containing protein 4; NCF; P40PHOX; MGC3810;

Gene ID [4689](#)

mRNA Refseq [NM_000631](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_000622
MIM	601488
UniProt ID	Q15080
Chromosome Location	22q13.1
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem; Immune System, organism-specific biosystem; Leishmaniasis, organism-specific biosystem;
Function	phosphatidylinositol binding; protein binding; protein dimerization activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA