Recombinant Human Neutrophil Cytosolic Factor 1, His-tagged

Cat. No. NCF1-1721H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanNCF1 protein, fused to His-tag at C-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Neutrophil cytosolicfactor 1, also known as NCF1, is a cytosolic subunit of neutrophil NADPHoxidase. NCF1, along with NCF2 and a membrane bound cytochrome b558, isrequired for activation of the latent NADPH oxidase necessary for superoxideproduction. Defects in NCF1, often resulting from recombination between NCF1and a nearby homologous pseudogene, cause chronic granulomatous disease.
Concentration	0.5 mg/ml
Form	Supplied as a liquidin 20 mM Tris-HCl buffer, pH 8.0, containing 1 mM DTT, 20% glycerol and 0.1 MNaCl.
Purity	> 90% pure bySDS-PAGE
Sequence	1-390 amino acids:MGDTFIRHIA LLGFEKRFVP SQHYVYMFLV KWQDLSEKVV YRRFTEIYEF HKTLKEMFPI EAGAINPENRIIPHLPAPKW FDGQRAAENR QGTLTEYCST LMSLPTKISR CPHLLDFFKV RPDDLKLPTD NQTKKPETYLMPKDGKSTAT DITGPIILQT YRAIANYEKT SGSEMALSTG DVVEVVEKSE SGWWFCQMKA KRGWIPASFLEPLD

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Molecular Mass	45.7 kDa (398 aa)confirmed by MALDI-TOF
Applications	SDS-PAGE
Storage	Store at 4 deg C forshort term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg Cfor long term storage. Avoid repeated freeze/thaw cycles.
OfficialSymbol	NCF1

GENE INFORMATION

Gene Name	NCF1neutrophil cytosolic factor 1 [Homo sapiens]
Synonyms	NCF1; neutrophil cytosolic factor 1;NCF1A; NOXO2; p47phox; FLJ79451; SH3PXD1A; NCF-1; NCF-47K; p47-phox; nox organizer 2; OTTHUMP00000195569; nox-organizing protein 2; NADPH oxidase organizer 2; 47 kDa neutrophil oxidase factor; neutrophil NADPH oxidase factor 1; SH3 and PX domain-containing protein 1A; 47 kDa autosomal chronic granulomatous disease protein; neutrophil cytosolic factor 1, (chronic granulomatous disease, autosomal 1)
Gene ID	653361
mRNA Refseq	NM_000265
Protein Refseq	NP_000256
MIM	608512
UniProt ID	P14598
Chromosome	7q11.23

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Location	
Pathway	Chemokine signalingpathway; Fc gamma R-mediated phagocytosis; Leishmaniasis; Leukocyte transendothelial migration; Osteoclastdifferentiation; Phagosome; RAC1 signaling pathway
Function	superoxide-generatingNADPH oxidase activity; protein binding; phosphatidylinositol binding;electron carrier activity; SH3 domain binding; GTPase activity; GTP binding
PDB rendering basedon 1gd5.	

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