

Recombinant Human Neutrophil Cytosolic Factor 4, 40kDa, T7-tagged

Cat. No. NCF4-2953H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human NCF4 was produced in *E.coli* with a T7 tag at N-terminus. MW = 39032 Da (1-348 aa).

Species

Human

Source

E.coli

Protein Length

1-348 a.a.

Description

Neutrophil cytosol factor 4 is a protein that in humans is encoded by the NCF4 gene. The protein encoded by this gene is a cytosolic regulatory component 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 1 (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. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

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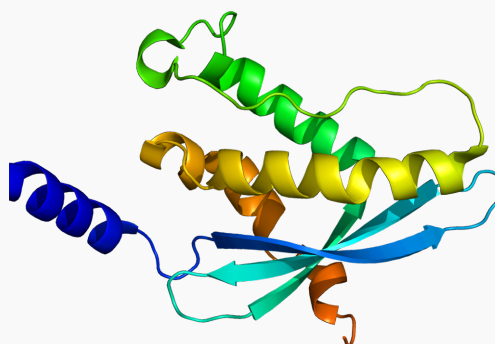
Form	10 mM Tris. pH 8.0. 0.1% Triton X-100. 0.002% NaN ₃ . 10mM DTT.
Purity	95%.
Applications	MS. SDS.
GENE INFORMATION	
Gene Name	NCF4 neutrophil cytosolic factor 4, 40kDa [Homo sapiens]
Synonyms	NCF4; neutrophil cytosolic factor 4, 40kDa; NCF; MGC3810; P40PHOX; SH3PXD4; NCF-4; p40-phox; neutrophil NADPH oxidase factor 4; SH3 and PX domain-containing protein 4; neutrophil cytosolic factor 4 (40kD)
Gene ID	4689
mRNA Refseq	NM_000631
Protein Refseq	NP_000622
MIM	601488
UniProt ID	Q15080
Chromosome Location	22q13.1
Pathway	Leishmaniasis; Leukocyte transendothelial migration; Phagosome
Function	phosphoinositide binding; protein binding; protein dimerization activity

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