

AR09591PU-N

Human NCF1 (1-390, His-tag) - Purified

Alternate names:

47 kDa autosomal chronic granulomatous disease protein, 47 kDa neutrophil oxidase factor, NCF-1, NCF-47K, NOXO2, Neutrophil NADPH oxidase factor 1, Neutrophil cytosol factor 1, Nox organizer 2, Nox-organizing protein 2, SH3 and PX domain-containing protein 1A, SH3PXD1A, p47-phox

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

Neutrophil cytosolic factor 1, also known as NCF1, is a cytosolic subunit of neutrophil NADPH oxidase. NCF1, along with NCF2 and a membrane bound cytochrome b558, is required for activation of the latent NADPH oxidase necessary for superoxide production. Defects in NCF1, often resulting from recombination between NCF1 and a nearby homologous pseudogene, cause chronic granulomatous disease.

Uniprot ID:

[P14598](#)

NCBI:

[NP_000256](#)

GenelD:

[653361](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 0.1 M NaCl

Description:

Recombinant human NCF1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGDTFIRHIA LLGFEKRFVP SQHYVYMLV KWQDLSEKVV YRRFTEIYEF HKTLEMFPI
EAGAINPENR IIPHLPAKW FDGQRAENR QGTLTEYCST LMSLPTKISR CPHLLDFFKV
RPDDLKLPD NQTKKPETYL MPKDGKSTAT DITGPIILQT YRAIANYEKT SGSEALSTG
DVVEVVEKSE SGWWFCQKKA KRGWIPASFL EPLDSPDETE DPEPNYAGEP YVAIKAYTAV
EGDEVSLLEG EAVEVIHKLL DGWWVIRKDD VTGYFPSMYL QKSGQDVSQA QRQIKRGAPP
RRSSIRNAHS IHQSRKRLS QDAYRRNSVR FLQQRQRQAR PGPQSPGSPL EEERQTQRSK
PQPAVPPRPS ADLILNRCSE STKRKLASAV VEHHHHHH

Molecular weight: 45.7 kDa (398aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

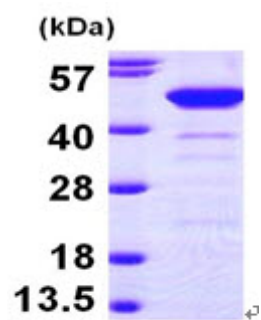
Shelf life: one year from despatch.

General Readings:

Wienties FB., et al. (2001) Biochem Biophys Res Commun. 289(2):382-8.

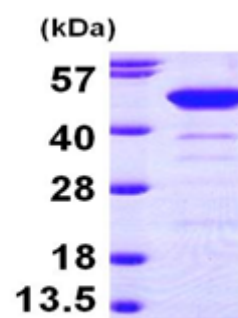
Doerries C., et al. (2007) Circ Res. 100:894-903.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human NCF1, 1- 390 aa, His-tagged



15% SDS-PAGE (3ug)