

Recombinant human p47phox/NCF1 protein

Catalog Number: ATGP0653

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-390aa

UniProt No.

P14598

NCBI Accession No.

AAH02816

Alternative Names

Neutrophil cytosol factor 1, 47 kDa autosomal chronic granulomatous disease protein, 47 kDa neutrophil oxidase factor, NCF-47K, Neutrophil NADPH oxidase factor 1, Nox organizer 2, Nox-organizing protein 2, SH3 and PX domain-containing protein 1A, NADPH oxidase organizer 2, NOXO2, SH3PXD1A, NCF1A

PRODUCT SPECIFICATION

Molecular Weight

45.7 kDa (398aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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. Recombinant human NCF1

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

Amino acid Sequence

MGDTFIRHIA LLGF EKRFVP SQHYVY MFLV KWQDLSEKVV YRRFTEIYEF HKTLKEMFPI EAGAINPENR IIPHLPAKWK
FDGQRAAENR QGTLTEYCST LMSLPTKISR CPHLLDFFKV RPDDLKLPTD NQTKKPETYL MPKDGKSTAT DITGPILQT
YRAIANYEKT SGSEMALSTG DVVEVVEKSE SGWWFCQMKA KRGWIPASFL EPLDSPDETE DPEPNYAGEP YVAIKAYTAV
EGDEVSLLEG EAVEVIHKLL DGWWVIRKDD VTGYFPSMYL QKSGQDVSQA QRQIKRGAPP RRSSIRNAHS IHQRSRKRLS
QDAYRRNSVR FLQQRRRQAR PGPQSPGSPL EEERQTQRSK PQPAVPPRPS ADLILNRCSE STKRKCLASAV <VEHHHHHH>

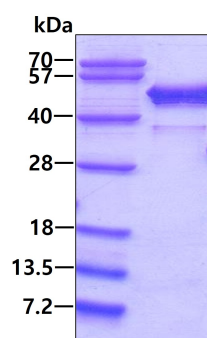
General References

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.