Recombinant human NCF4 protein

Catalog Number: ATGP1769

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-339aa

UniProt No.
Q15080

NCBI Accession No.
NP_000622

Alternative Names
Neutrophil cytosol factor 4, NCF, P40PHOX, SH3PXD4

PRODUCT SPECIFICATION

Molecular Weight
41.1 kDa (359aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

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
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. Recombinant human NCF4 protein, fused to His-tag at N-terminus, was expressed in E. coli and

purified by using conventional chromatography techniques.

Amino acid Sequence

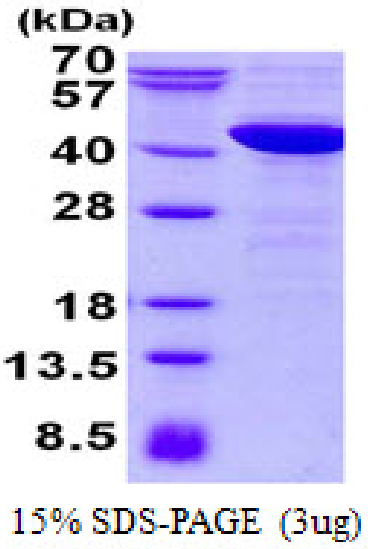
MGSSHHHHHH SSGLVPRGSH MAVAQQLRAE SDFEQLPDDV AISANIADIE EKRGFTSHFV FVIEVKTKGG SKYLIYRRYR QFHALQSKLE ERFGPDSKSS ALACTLPTLP AKVYVGVKQE IAEMRIPALN AYMKSLLSLP VWVLMDEDVR IFFYQSPYDS EQVPQALRRL RPRTRKVKSV SPQGNSVDRM AAPRAEALFD FTGNSKLELN FKAGDVIFLL SRINKDWLEG TVRGATGIFP LSFVKILKDF PEEDDPTNWL RCYYYEDTIS TIKDIAVEED LSSTPLLKDL LELTRREFQR EDIALNYRDA EGDLVRLLSD EDVALMVRQA RGLPSQKRLF PWKLHITQKD NYRVYNTMP

General References

Eglinton,T.W., et al. (2012) Am. J. Gastroenterol. 107 (4), 589-596

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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