9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NCF4 Human

Neutrophil Cytosolic Factor 4 Human Recombinant
RCP1462

Product Overview

Name	NCF4 Human
Description	
Neutrophil Cytosolic Factor 4 Human Recombinant	
Accession (Primary)	Q15080
Synonyms	
Neutrophil cytosol factor 4, NCF-4, Neutrophil NADPH oxidase factor 4, SH3 and PX domain-containing protein 4, p40-phox, p40phox, NCF4, SH3PXD4, NCF, SH3PXD4.	
Introduction	
Neutrophil Cytosolic Factor 4 (NCF4) is a cytosolic regulatory factor of the superoxide-producing phagocyte NADPH-oxidase, which is a multicomponent enzyme system imperative for host defense. The NCF4 protein is preferentially expressed in cells of myeloid lineage. NCF4 interacts mainly with neutrophil cytosolic factor 2 (NCF2/p67-phox) to create 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 subsequently activates flavocytochrome b, the membrane-integratedcatalytic core of the enzyme system. The PX domain of the NCF4 protein can bind phospholipid products of the PI(3) kinase, suggesting its part in PI(3) kinase-mediated signaling events. The phosphorylation of the NCF4 protein negatively regulates the enzyme activity.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
NCF4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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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.

Precautions

NCF4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q15080)