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32-4294: Recombinant Human Neutrophil Cytosolic Factor 4

Alternative Name :   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.

Description

Source : Escherichia Coli. NCF4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 359 amino acids (1-339 a.a) and having a molecular mass of 41.1kDa.NCF4 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	NCF4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	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.