
Product Data Sheet

Product Name: NCF4 Human
 Cat. No.: GP24013
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAVAQQLRAE SDFEQLPDDV AISANIADIE EKRGF TSHFV FVIEVKTKGG SKYLIYRRYR QFHALQSKLE ERFPGDSKSS ALACTLPTLP AKVYVGVKQE IAEMRIPALN AYMKSLLSLP VVVLMDDEDVR IFFYQSPYDS EQVPQALRRL RPRTRKVKSV SPQGNSVDRM AAPRAEALFD FTGNSKLELN FKAGDVIFLL SRINKDWLEG TVRGATGIFP LSFVKILKDF PEEDDPTNWL RCYYYEDTIS TIKDIAVEED LSSTPLLKDL LELTRREFQR EDIALNYRDA EGDLVRLSD EDVALMVRQA RGLPSQKRLF PWKLHITQKD NYRVYNTMP.		
Formulation	NCF4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

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-integrated catalytic 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

Caution: Product has not been fully validated for medical applications. For research use only.

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the enzyme activity.

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.

Background

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.

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