
Product Data Sheet

Product Name: NCK1 Human
 Cat. No.: GP24014
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NCK; NCKalpha; NCK1; NCK adaptor protein 1; Cytoplasmic protein NCK1; SH2/SH3 adaptor protein NCK-alpha; MGC12668.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAEEVVVAK FDYVAQQEQE LDIKKNERLW LLDDSKSWWR VRNSMNKTGF VPSNYVERKN SARKASIVKN LKDTLGIGKV KRKPSVPDSA SPADDSFVDP GERLYDLNMP AYVKFNYMAE REDELSLIKG TKVIVMEKCS DGWWRGSYNG QVGWFPSNYV TEEGDSPLGD HVGSLSEKLA AVVNNLNTGQ VLHVQALYP FSSNDEELN FEKGDVMDVIEKPENDEPEWW KCRKINGMVG LVPKNYVTVM QNNPLTSGLE PAPPQCDYIR PSLTGKFAGN PWYYGKVTRH QAEMALNERG HEGDFLIRDS ESSPNDFSVS LKAQGKNKHF KVQLKETVYC IGQRKFSTME ELVEHYKKAP IFTSEQGEKL YLVKHLS.		
Formulation	NCK1 Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA, 50mM NaCl & 20% glycerol.		

Introduction

NCK1 is an adapter protein which binds with tyrosine-phosphorylated growth factor receptors or their cellular substrates. NCK1 maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. NCK1 is involved in the DNA damage response, for efficient activation of downstream effectors, such as that of CHEK2. NCK1 is one of the signaling and transforming proteins containing Src homology 2 and 3 (SH2 and SH3) domains. NCK1 is located in the cytoplasm and is an adaptor protein that participates in transducing signals from receptor tyrosine kinases to downstream signal recipients such as RAS.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

NCK1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 397 amino acids (1-377 a.a.) and having a molecular mass of 45 kDa. The NCK1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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