# **Recombinant Human NCK1 Protein (His Tag)**

Catalog Number: PKSH032339



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Cytoplasmic Protein NCK1; NCK adaptor Protein 1; Nck-1; SH2/SH3 Adaptor

Protein NCK-Alpha; NCK1; NCK

SpeciesHumanExpression HostE.coli

Sequence Met 1-Ser377

Accession P16333
Calculated Molecular Weight 45.0 kDa
Observed molecular weight 50 kDa
Tag N-His

## **Properties**

**Purity** > 80 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 5%

Mannitol, pH 8.0.

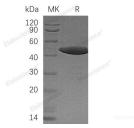
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 80 % as determined by reducing SDS-PAGE.

## **Background**

Cytoplasmic Protein NCK1 (NCK1) is a cytoplasmic protein that contains one SH2 domain and three SH3 domains. NCK1 is a member of the adapter family, which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. NCK1 maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. NCK1 plays a role in the DNA damage response, but not in the detection of the damage by ATM/ATR. It is also involved in transducing signals from receptor tyrosine kinases to downstream signal recipients, such as ELK1-dependent transcriptional activation in response to activated Ras signaling.

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