

Recombinant human NEK7 protein

Catalog Number: ATGP1787

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-302aa

UniProt No.

Q8TDX7

NCBI Accession No.

NP_598001

Alternative Names

Serine/threonine-protein kinase Nek7, NIMA (never in mitosis gene a)-related kinase 7

PRODUCT SPECIFICATION

Molecular Weight

37 kDa (326aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NEK7 is protein kinase which plays an important role in mitotic cell cycle progression. It is required for microtubule nucleation activity of the centrosome, robust mitotic spindle formation and cytokinesis. NEK7 is highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte and spleen. Recombinant human NEK7 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MDEQSQ GMQGPPVPQF QPQKALRPDM GYNTLANFRI EKKIGRGQFS
EVYRAACLLD GVPVALKKVQ IFDLMDAKAR ADCIKEIDLL KQLNHPNVIK YYASFIEDNE LNIVLELADA GDLSRMIKHF
KKQKRLIPER TVWKYFVQLC SALEHMHSRR VMHRDIKPAN VFITATGVVK LGDLGLGRFF SSKTTAAHSL VGTPYYMSPE
RIHENGYNFK SDIWSLGCLL YEMAALQSPF YGDKMNLVSL CKKIEQCDYP PLPSDHYSEE LRQLVNMCIIN PDPEKRPDVT
VYDVAKRMH ACTASS

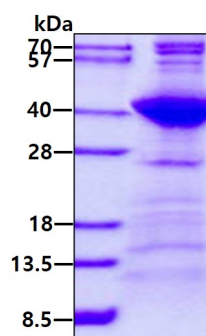
General References

Yissachar N, Salem H, et al. (2006). FEBS Lett. 580(27):6489-95.

Kim S, Lee K, et al. (2007). Biochem Biophys Res Commun. 360(1):56-62.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.