

NEK2

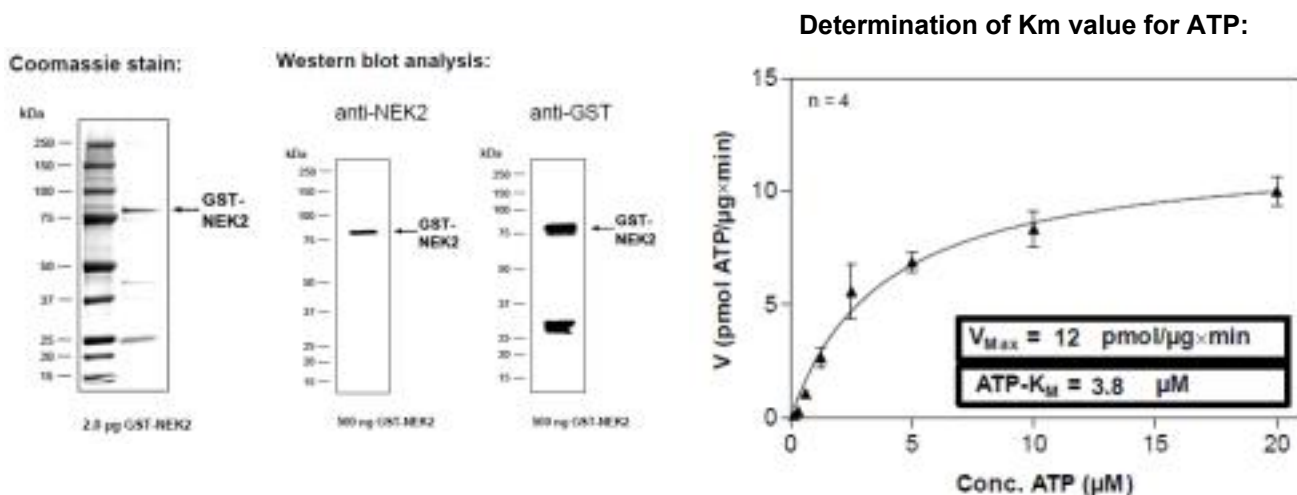
Recombinant Human NEK2 (Met₁-Arg₄₄₅) Active GST-His

Catalog No.	CSI12234	Quantity:	50 µg
Alternate Names:	HsPK21, NEK2A, NLK1, NIMA-related kinase 2		
Description:	Human NEK2 amino acids M ₁ -R ₄₄₅ (as in GenBank entry NM_002497), N-terminally fused to GST-HIS6-Thrombin cleavage site		
Concentration:	0.101 µg/µl		
Gene ID:	4751		
Protein Accession No:	NM_002497		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 82,687 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	NEK2 was confirmed as NEK2 by specific Western Blotting using anti NEK2 antibody		
Specific Activity:	12 pmol/µg×min		
	Method for determination of Km value and specific activity: • Assay conditions: 60 mM HEPES-NaOH, pH 7.5 3 mM MgCl₂ 3 mM MnCl₂ 3 µM Na-orthovanadate 1.2 mM DTT 50 µg / ml PEG_{20,000} ATP (variable) Substrate: GSK3-derived peptide (R₁₁-SGRARTSSFAEPGGK), 20 µg / ml Recombinant NEK2: 1.0 µg / ml • Filter binding assay MSPH membrane (Millipore)		



Amino Acid Sequence: MSPILGYWKI KGLVQPTRL LLEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTSMA IIRYADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWQATF GGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD
 GIYARGIQAS MGARGRLQGT **MPSRAEDYEV** **LYTIGTGSYG** **RCQKIRRKSD**
GKILVWKELD **YGSMTAEKQ** **MLVSEVNLLR** **ELKHPNIVRY** **YDRIIDRTNT**
TLYIVMEYCE **GGDLASVITK** **GTKERQYLDE** **EFVLRVMTQL** **TLALKECHRR**
SDGGHTVLHR **DLKPANVFLD** **GKQNVKLGDF** **GLARILNHD** **SFAKTFVGT**
P **YMSPEQMNR** **MSYNEKSDIW** **SLGCLLYELC** **ALMPPFTAFS** **QKELAGKIRE**
GKFRIPYRY **SDELNEIITR** **MLNLKDYHRP** **SVEEILENPL** **IADLVADEQR**
RNLERRGRQL **GEPEKSQDSS** **PVLSELKLKE** **IDLQERERAL** **KAREERLEQK**
EQELCVRERL **AEDKLARAEN** **LLKNYSLLKE** **RKFLSLASNP** **ELNLPSIVI**
KKKVHFSGES **KENIMRSENS** **ESQLTSKSKC** **KDLKKRLHAA** **QLRAQALSDI**
EKNYQLKSRQ **ILGMR**

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**



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