

EEF2K

Recombinant Human Eukaryotic Elongation Factor 2 Kinase GST-Tagged

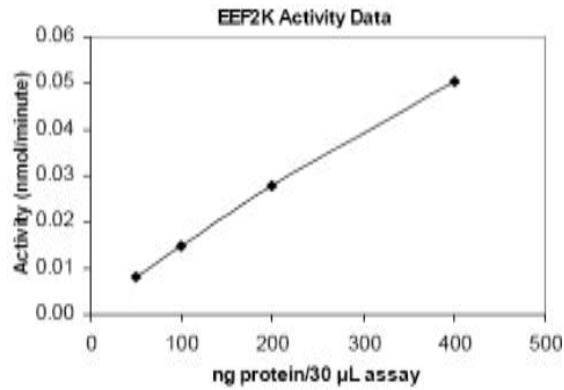
Catalog No.	CSI13343	Quantity:	10 µg
Alternate Names:	Calmodulin-Dependent Protein Kinase III, Elongation Factor-2 Kinase, eEF-2K		
Gene ID:	29904		
Description:	Recombinant human full length EEF2K GST-Tagged		
Concentration:	0.43 mg/ml		
Source:	<i>E. coli</i>		
Molecular Weight:	109.8 kDa calculated from the amino acid sequence below		
Formulation:	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol		
Purity:	≥ 75% as determined by SDS-PAGE analysis		
Specific Activity:	148 nmole of phosphate transferred to EF2tide (RKKFGESEKTKTKEFL) per min per mg of total protein at 30°C. Activity determined at a final protein concentration of 3.33 µg/ml.		
Amino Acid Sequence:	MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGQWQATF GGGDHPPKSD LVPRPWSNQT SLYKKAGTMA DEDLIFRLEG VDGGQSPRAG HDGSDSDGSD DEEGYFICPI TDDPSSNQNV NSKVNKYYSN LTKSERYSSS GSPANSFHFKEAWKHAIQKA KHMPDPWAEF HLEDIATERA TRHRYNAVTVG EWLDDDEVLIK MASQPFGRGA MRECFRTKKL SNFLHAQQWK GASNYVAKRY IEPVDRDVYF EDVRLQMEAK LWGEEYNRHK PPKQVDIMQM CIIELKDRPG KPLFHLEHYI EGKYIKYNSN SGFVRDDNIR LTPQAFSHFT FERSGHQLIV VDIQGVGDLY TDPQIHTETG TDFGDGNLGV RGMALFFYSH ACNRICESMG LAPFDLSPRE RDAVNQNTKL LQSAKTILRG TEEKCGSPRV RTLSGSRPPL LRPLSENSGD ENMSDVTFDS LPSSPSSATP HSQKLDHLHW PVFSDLDNMA SRDHDHLDNH RESENSGDSG YPSEKRGELD DPEPREHGHS YSNRKYESDE DSLGSSGRVC VEKWNLLNSS RLHLPRASAV ALEVQRLNAL DLEKKIGKSI LGKVHLAMVR YHEGGRFCEK GEEWDQESAV FHLEHAANLG ELEAIVGLGL MYSQPLPHIL ADVSLKETEE NKTGFDYLL KAAEAGDRQS MILVARAFDS GQNLSPDRCQ DWLEALHWYN TALEMTDCDE GGEYDGMQDE PRYMMLAREA EMLFTGGYGL EKDPQRSGDL YTQAAEAAME AMKGRLANQY YQKAEAAWAQ MEE		
Storage & Stability:	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		

Quality Assurance Activity Assay and Data:

The enzyme was pre-diluted in enzyme dilution buffer and assayed in 25 mM HEPES, pH 7.5 + 10 mM



MgCl₂ + 0.5 mM EGTA + 0.5 mM Na₃VO₄ + 5 mM β- glycerophosphate + 2.5 mM DTT + 0.01% Triton® X-100 + 0.5 mM CaCl₂ + 16.7 µg/ml calmodulin + 100 µM ATP + 200 µg/ml EF2tide and trace [32P]-γ-ATP for 10 minutes at 30°C.



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