

HCK

Recombinant Human Hemopoietic Cell Kinase Active GST-His

Catalog No.	CSI11183	Quantity:	50 µg
Alternate Names:	GSK3beta isoform, glycogen synthase kinase-3 beta		
Description:	Human HCK, full length, amino acids M ₁ -P ₅₀₅ (as in NCBI/Protein entry NP_002101.1), N-terminal GST-HIS ₆ fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells.		
Concentration:	0.143 µg/µl		
Gene ID:	3055		
Protein Accession No:	NP_002101.1		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 86,707 Da		
Formulation:	50 mM HEPES, pH 7.5 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	GST-Affinity Chromatography		
Product Identity:	HCK was confirmed as HCK by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	34 pmol/µg×min ATP-K _M : 1.8 µMHCK		

Method for determination of K_m 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: Poly(Glu:Tyr)_{4:1}
(Sigma P-0275), 20 µg / ml
HCK: 1.0 µg / ml
- Filter binding assay

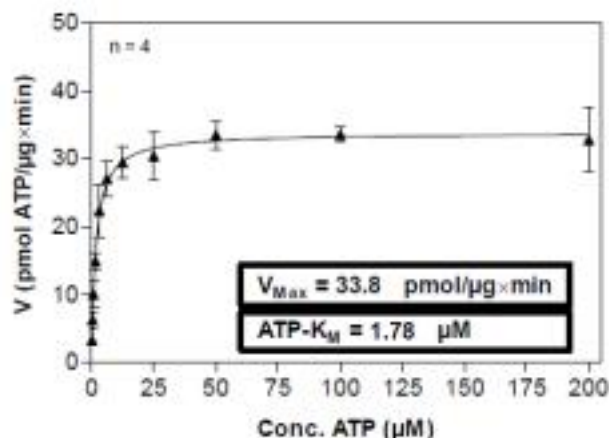
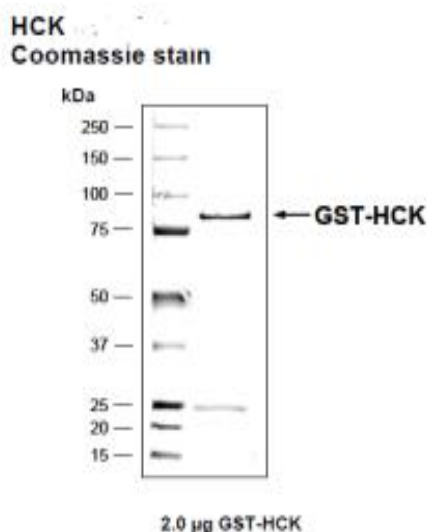


MSFC membrane (Millipore)

Amino Acid Sequence: MSPILGYWKI KGLVQPTRL LLEYLEEKYEE HLYERDEGDK WRNKKFELGL
EFPNLPYYID GDVCLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL
DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSSKYIA
WPLQGWQATF GGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD
GICSRMGCMK **SKFLQVGGNT FSKTETSASP HCPVYVPDPT STIKPGPNSH**
NSNTPGIREA GSEDIIVVAL CDYEAHHED LSFQKGDQMV VLEESGEWWK
ARSLATRKEG YIPSNYVARV DSLETEEWFF KGISRKDAER QLLAPGNMLG
SFMIRDSETT KGSYSLSVRD YDPRQGDVTK HYKIRTLNNG GFYISPRSTF
STLQELVDHY KKENDGLCQK LSVPCMSSKP QKPWEKDAWE IPRESLKLEK
KLGAQGFGEV WMATYNKHTK VAVKTMKPGS MSVEAFLAEA NVMKTLQHDK
LVKLHAVVT K EPIYIITEFM AKGSLDLFLK SDEGSKQPLP KLIDFSAQIA
EGMAFIEQRN YIHRDLRAAN ILVSASLVCK IADFGLARVI EDNEYTAREG
AKFPIKWTAP EAINFGSFTI KSDVWSFGIL MEIVTYGRI PYPGMSNPEV
IRALERGYRM PRPENCPEEL YNIMMRCWKN RPEERPTFEY IQSVLDDFYT
ATESQYQQQP

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

HCK: Determination of V_{max} and K_M value for ATP



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