

ITK

Recombinant Human ITK Active GST-His

Catalog No.	CRI027	Quantity:	50 µg
Alternate Names:	EMT, LYK, MGC126257, MGC126258, PSCTK2, tyrosine-protein kinase ITK/TSK, kinase EMT, T-cell-specific kinase, tyrosine-protein kinase LYK, homolog of mouse T-cell itk/tsk		
Description:	Human ITK, full length, amino acids M ₁ -L ₆₃₀ (as in NCBI/Protein entry NP_005537.3), N-terminal GST-HIS ₆ fusion protein with a Thrombin/3C cleavage site, expressed in Sf9 insect cells.		
Concentration:	0.073 µg/µl		
Gene ID:	3702		
Protein Accession No:	NP_005537.3		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 101,727 Da		
Formulation:	50 mM HEPES pH 7.5 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	GST-Affinity Chromatography		
Product Identity:	ITK was confirmed as ITK by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	11 pmol/µg×min ATP-K _M : 2.5 µMITK Method for determination of K _m value and specific activity: • Assay conditions: 60 mM HEPES-NaOH, pH 7.5 3 mM MgCl ₂ 3 mM MnCl ₂ 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 ITK: 4.0 µg / ml • Filter binding assay MSFC membrane (Millipore)		

Amino Acid Sequence:



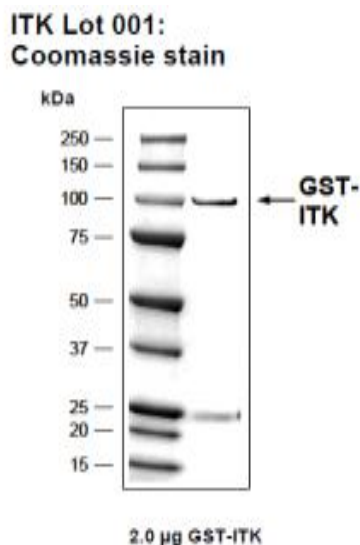
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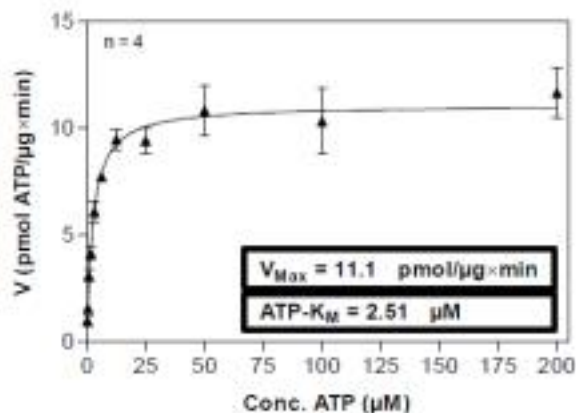
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MSPILGYWKI KGLVQPTRL LLYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTSMA IIRYADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWQATF GGDHPPKSD PMGHHHHHHG RRRASVAAG LVPRGSPGLD
 GIYARGIQAS **MNNFILLEEQ LIKKSQQKRR TSPSNFKVRF FVLTKASLAY**
FEDRHGKKRT LKGSIELSRI KCVEIVKSDI SIPCHYKYPF QVVHDNYLLY
VFAPDRESRQ RWVLALKEET RNNNSLVPKY HPNFWMDGKW RCCSQLEKLA
TGCAQYDPTK NASKKPLPPT PEDNRRPLWE PEETVVIALY DYQTNDPQEL
ALRRNEEYCL LDSSEIHWWR VQDRNGHEGY VPSSYLVEKS PNNLETYEWY
NKSISRDAE KLLLDTGKEG AFMVRDSRTA GTYTVSVFTK AVVSENNPCI
KHYHIKETND NPKRYVVAEK YVFDSIPLLI NYHQHNGGGL VTRLRYPVCF
GRQKAPVTAG LRYGKWVIDP SELTFVQEIG SGQFGLVHLG YWLNKDKVAI
KTIREGAMSE EDFIEEAEVM MKLSHPKLVQ LYGVCLEQAP ICLVFEFMEH
GCLSDYLRTQ RGLFAAETLL GMCLDVCEGM AYLEEACVIH RDLAARNCLV
GENQVIKVSF FGMTRFVLDQ QYTSSTGTFK PVKWASPEVF SFSRYSSKSD
VWSFGVLMWE VFSEGKIPEY NRSNSEVVED ISTGFRLYKP RLASTHVYQI
MNHCWKERPE DRPAFSRLLR QLAEIAESGL

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



Determination of V_{max} and K_M value for ATP



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