

SYK

Recombinant Human SYK/Spleen Tyrosine Kinase (Met₁-Asn₆₃₅) Active GST-His

Catalog No.	CRS024	Quantity:	50 µg
Alternate Names:	P72-Syk		
Description:	Human SYK, full length, amino acids M ₁ -N ₆₃₅ (as in NCBI/Protein entry NP_003168.1), N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells.		
Concentration:	0.094 µg/µl		
Gene ID:	6850		
Protein Accession No:	NP_003168.1		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 104,408 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:	SYK, was confirmed as SYK by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	20 pmol/µg×min ATP-K _M : 2.2 µM		

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
SYK: 2.0 µg / ml
- Filter binding assay
MSFC membrane (Millipore)

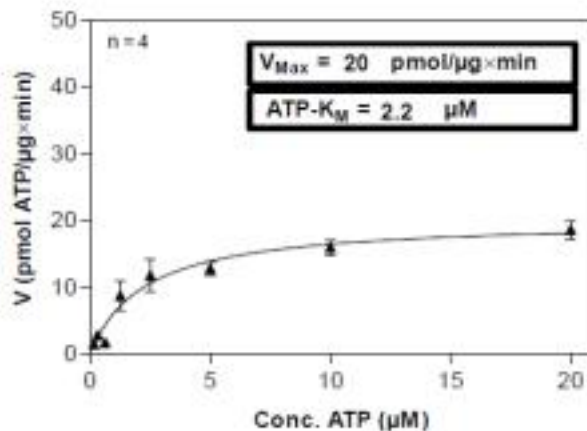
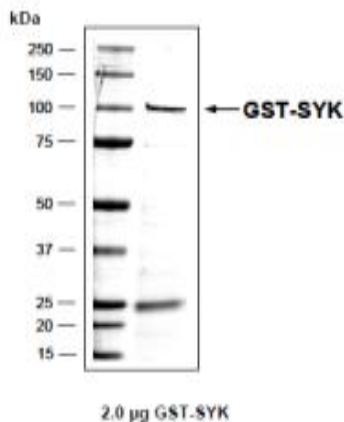


Amino Acid Sequence: MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTSMA IIRYADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWAQTF GGDHPPKSD PMGHHHHHHG RRRASVAAGI LVPRGSPGLD
 GIYARGIQAS MGARGRQCDG YLQNSPLSDP GIQ**MASSGMA DSANHLPPFF**
GNITREEAED YLVQGGMSDG LYLLRQSRNY LGGFALSVAH GRKAHHYIE
 RELNGTYAIA GGRTHASPAD LCHYHSQESD GLVCLLKKPF NRPQGVQPKT
 GPFEDLKENL IREYVKQTNW LQQQALEQAI ISQKPQLEKL IATTAHEKMP
 WFHGKISREE SEQIVLIGSK TNGKFLIRAR DNNGSYALCL LHEGKVLHYR
 IDKDKTGKLS IPEGKKFDL WQLVEHYSYK ADGLLRVLTV PCQKIGTQGN
 VNFGRPQLP GSHPATWSAG GIISRIKSYS FPKPGHRKSS PAQGNRQEST
 VSFNPEPEL APWAADKGPQ REALPMDTEV YESPYADPEE IRPKEVYLDL
 KLLTLEDKEL GSGNFGTVKK GYYQMKKVVK TVAVKILKNE ANDPALKDEL
 LAEANVMQQL DNPYIVRMIG ICEAESWMLV MEMAELGPLN KYLQQNRHVK
 DKNIIELVHQ VSMGMKYLEE SNFVHRDLAA RNVLLVTQHY AKISDFGLSK
 ALRADENYYK AQTHGKWPVK WYAPECINYY KFSSKSDVWS FGVLMWEAFS
 YGQKPYRGMK GSEVTAMLEK GERMGCAPGC PREMYDLMNL CWTYDVENRP
 GFAAVELRLR NYYYYDVVN

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

SYK
 Determination of V_{max} and
 K_M value for ATP

SYK
 Coomassie stain



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