

PTK2B

Recombinant Human Protein Tyrosine Kinase 2 beta Active GST-His

Catalog No.	CSI17141	Quantity:	50 µg
Alternate Names:	CADTK, CAKB, FADK2, FAK2, FRNK, PKB, PTK, PYK2, RAFTK, CAK beta, calcium-dependent tyrosine kinase, cell adhesion kinase beta, focal adhesion kinase 2, proline-rich tyrosine kinase 2, protein kinase B, protein tyrosine kinase 2 beta, related adhesion focal tyrosine kinase		
Description:	Human PYK2, full length amino acids M ₁ -E ₁₀₀₉ (as in GenBank entry NM_004103.3)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site, expressed in Sf9 insect cells. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.076 µg/µl		
Gene ID:	2185		
Protein Accession No:	NM_004103.3		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 145,724 Da		
Formulation:	50 mM HEPES-NaOH, pH 7.5 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	PYK2 was confirmed as PYK2 by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	6 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
- 2.5 µg / 50 µl PEG_{20,000}
- ATP (variable)
- Substrate: Poly(Glu:Tyr)_{4:1}
- (Sigma 20K5903), 0.5 µg / 50 µl
- PYK2: 200 ng / 50 µl
- Filter binding assay
- MSFC membrane (Millipore)



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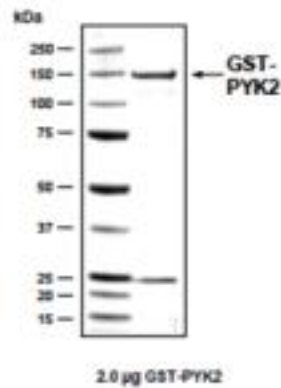
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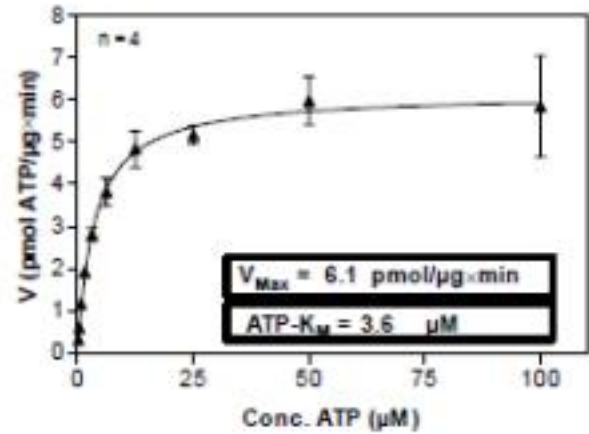
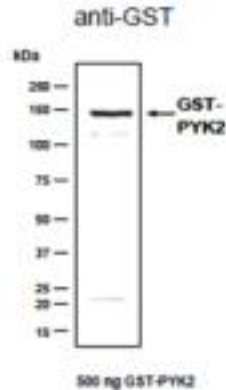
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:

Coomassie stain:



Western blot analysis:



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