

ZAP70

Recombinant Human Zeta-chain (TCR) Associated Protein Kinase 70 kDa Active GST-His

Catalog No.	CSI10922	Quantity:	50 µg
Alternate Names:	CNK, FNK, PRK, FGF-inducible kinase, cytokine-inducible kinase, polo-like kinase 3, proliferation-related kinase		
Description:	Human ZAP70, Amino acids M ₁ -A ₆₁₉ (as in GenBank entry NM_001079)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.263 µg/µl		
Gene ID:	7535		
Protein Accession No:	NM_001079		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 99,496 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	ZAP70 was confirmed as ZAP70 by specific Western Blotting using anti ZAP70 antibody		
Specific Activity:	76 pmol/µg×min		

Method for determination of K_m value and specific activity:

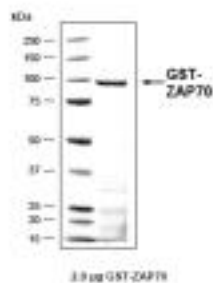
- Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl PEG_{20,000}
ATP (variable)
Substrate: Poly(Glu,Tyr)_{4:1}
(Sigma P-0275), 1.0 µg / 50 µl
Recombinant ZAP70: 200 ng / 50 µl
- Filter binding assay
MSFC membrane (Millipore)



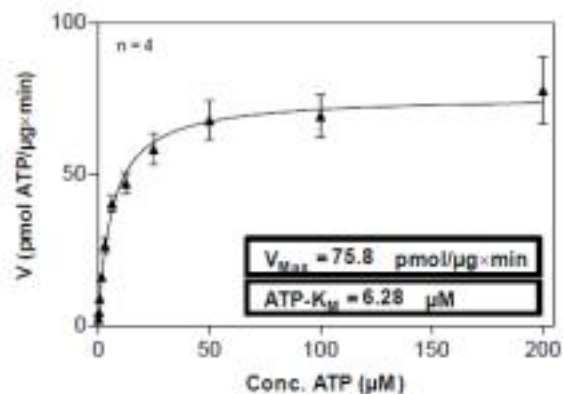
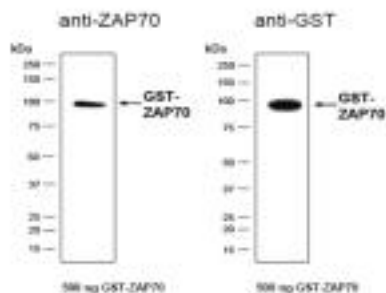
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:

Coomassie stain:



Western blot analysis:



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