FRK
Recombinant Human fyn-related kinase Active GST-His

Catalog No.	CRF035	**Quantity:**	50 µg

Alternate Names: GTK, PTK5, RAK, PTK5 protein tyrosine kinase 5, nuclear tyrosine protein kinase RAK, tyrosine-protein kinase FRK

Description: Human FRK/ Amino acids M_1-R_{505} (as in GenBank entry NM_002031)*, N-terminally fused to GST-HIS_6-Thrombin cleavage site.
***Sequence may contain documented polymorphisms.**
Detailed sequence on request

Concentration: 0.098 µg/µl

Gene ID: 2444

Protein Accession No: NM_002031

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 87.649 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: FRK was confirmed as human FRK by mass spectroscopy LC-ESI-MS/MS

Specific Activity: 73 pmol/µg×min
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
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: $Poly(Glu,Tyr)_{4:1}$
(Sigma P-0275), 2 µg / 50 µl
Recombinant FRK: 200 ng / 50 µl
• Filter binding assay
MSFC membrane (Millipore)

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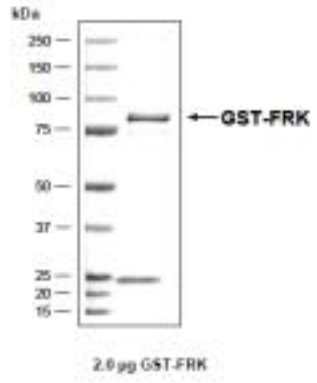
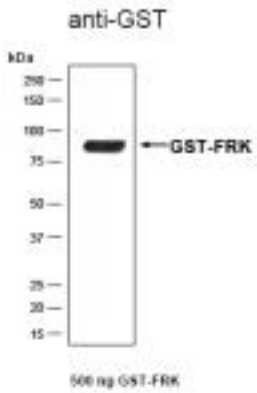
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

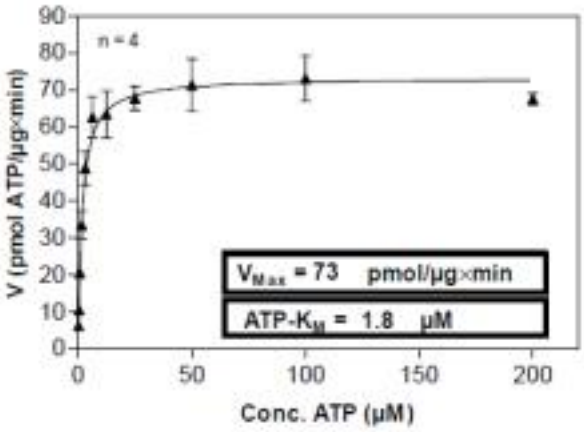
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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