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Certificate of Analysis

Fak, 10 µg

Recombinant Human Protein Tyrosine Kinase 2 (Focal Adhesion Kinase), Histidine-tagged
Cat Number: BIOTK-Fak
Lot Number: 3-08

Description:
Recombinant Human protein, Catalytic Domain (amino acids 351-750), Histidine-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:
13.8 nmole of phosphate transferred to Poly E_4Y peptide substrate (Sigma, P0275) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 5.8 µg/mL.

Protein Concentration:
0.14 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

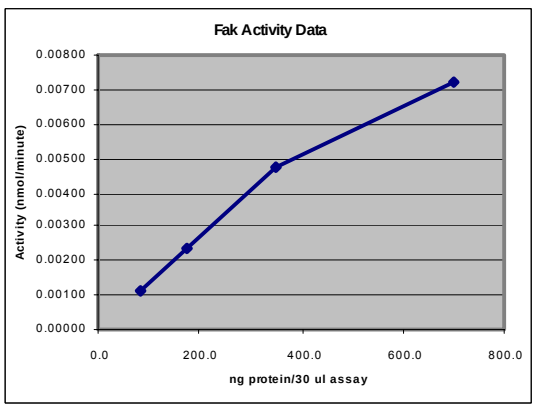
Storage and Handling:
Store at -80°C for long time. At first use, aliquot and to avoid multiple freeze-thaw cycles. If properly stored at -80°C, this product is guaranteed for 12 months from date of purchase. **Protein stable for 6 months at -20°C, for 3-5 h at 4°C and not stable at room temperature.**

Storage Buffer:
50 mM Tris (pH 7.5), 150 mM NaCl, 0.02% Triton® X-100, 2 mM DTT, 50% Glycerol

Enzyme Dilution Buffer:
50 mM Tris (pH 7.5), 10% Glycerol, 0.02% Triton® X-100, 0.1 mg/mL BSA, 0.5 mM Na_3VO_4, 2 mM DTT

Quality Assurance

Activity Graph:

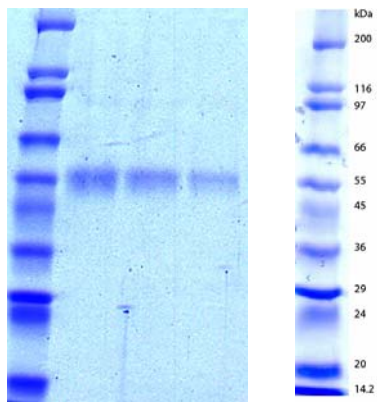


Assay Conditions:
The enzyme was pre-diluted in enzyme dilution buffer and assayed in 50 mM Tris (pH 7.5), 0.01% Tween-20, 5 mM $MgCl_2$, 5 mM $MnCl_2$, 0.5 mM Na_3VO_4, 2 mM DTT, 10 µM ATP, 50 µg Poly E_4Y peptide substrate per reaction and trace [^{32}P]-γ-ATP for 10 minutes at 30°C.

Purity:
≥90% as determined by a Coomassie blue-stained SDS-PAGE gel.

Molecular Weight:
50 kDa calculated from the sequence below.

PAGE Description:



The SDS-PAGE was run on a 10 well 4-20% Tris-Glycine Novex gel (Catalog #: EC6025BOX).

Lane 1: SigmaMarker, Wide Range, Molecular Weight (Catalog#: S8445, Sigma)
Lane 2: 2.1 µg Fak
Lane 3: 1.05 µg Fak
Lane 4: 0.525 µg Fak

Protein Sequence:

MSYYHHHHHH DYDIPTTENL YFQGAMGS**VN GTSQSFIIRP QKEGERALPS IPKLANSEKQ GMRTHAVSVS ETDDYAEIID EEDTYTMPST RDYEIQRERI** 100
ELGRCIGEGQ FGDVHQGIYM SPENPALAVA IKTCKNCTSD SVREKFLQEA LTMRQFDHPH IVKLIGVITE NPVWIIMELC TLGELRSFLQ VRKYSLDLAS 200
LILYAYQLST ALAYLESKRF VHRDIAARNV LVSSNDCVKL GDFGLSRYME DSTYYKASKG KLPIKWMAPE SINFRRFTSA SDVWMFGVCM WEILMHGVKP 300
FQGVKNNDVI GRIENGERLP MPPNCPPTLY SLMTKCWAYD PSRRPRFTEL KAQLSTILEE EKAQQEERMR MESRRQATVS WDSGGSDEAP PKPSRPGYPS 400
PRSSEGFYPS PQHMVQTNHY QVSGYPGSSR HAVPSLSRST RGS. 444

351-750 amino acids from Fak (GenBank Accession Number NP_722560) in bold.