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Certificate of Analysis
FGFR1, 10 µg

Recombinant Human Fibroblast Growth Factor Receptor 1, Histidine-tagged
Cat Number: BIOTK-FGFR1
Lot Number: 3-08

Description:
Recombinant Human protein, Catalytic Domain (amino acids 398-820), Histidine-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:
99.4 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 1.6 µg/mL.

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

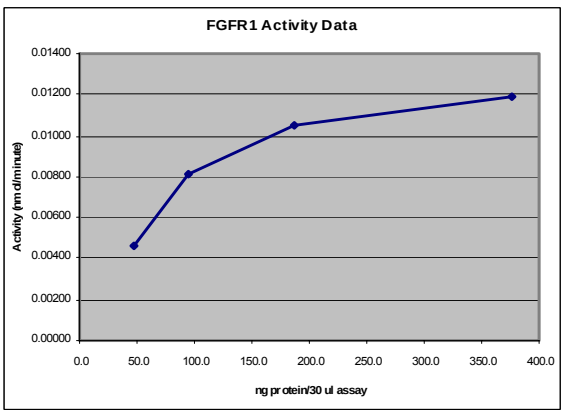
Storage and Handling:
Store at -80°C for long time. At first use, aliquot and to avoid multiple freeze-thaw cycles. If properly stored at -80°C, this product is guaranteed for 12 months from date of purchase. **Protein stable for 6 months at -20°C, for 3-5 h at 4°C and not stable at room temperature.**

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:

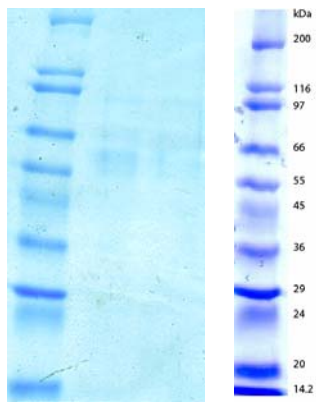


Assay Conditions:
The enzyme was pre-diluted in enzyme dilution buffer and assayed in 50 mM Tris (pH 7.5), 0.01% Tween-20, 5 mM $MgCl_2$, 5 mM $MnCl_2$, 0.5 mM Na_3VO_4, 2 mM DTT, 10 µM ATP, 50 µg Poly E_4Y peptide substrate per reaction and trace [^{32}P]-γ-ATP for 10 minutes at 30°C.

Purity:
≥60% as determined by a Coomassie blue-stained SDS-PAGE gel.

Molecular Weight:
52 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: 1.1 µg FGFR1
Lane 3: 0.55 µg FGFR1

Protein Sequence:

MSYYHHHHHH DYDIPTTENL YFQGAMGS**KS GTKKSDFHSQ MAVHKLAKSI PLRRQVTVSA DSSASMNSGV LLVRPSRLSS SGTPMLAGVS EYELPEDPRW** 100
ELPRDRLVLG KPLGEGCFGQ VVLAEAIGLD KDKPNRVTKV AVKMLKSDAT EKDLSDLISE MEMMKMIGKH KNIINLLGAC TQDGPLYVIV EYASKGNLRE 200
YLQARRPPGL EYCYNPSHNP EEQLSSKDLV SCAYQVARGM EYLASKKCIH RDLAARNVLV TEDNVMKIAD FGLARDIHHI DYYKKTTNGR LPVKWMAPEA 300
LFDRIYTHQS DVWSFGVLLW EIFTLGGSPY PGVPVEELFK LLKEGHRMDK PSNCTNELYM MMRDCWHAVP SQRPTFKQLV EDLDRIVALT SNQEYLDLSM 400
PLDQYSPSFP DTRSSTCSSG EDSVFSHEPL PEEPCLPRHP AQLANGGLKR RSRHAVPSLS RSTRGS. 467

398-820 amino acids from FGFR1 (GenBank Accession Number NP_056934) in bold.