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Certificate of Analysis
FGFR2, 10 µg

Recombinant Human Fibroblast Growth Factor Receptor 2, Histidine-tagged
Cat Number: BIOTK-FGFR2
Lot Number: 3-08

Description:
Recombinant Human protein, Catalytic Domain (amino acids 402-822), Histidine-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:
251 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 0.9 µg/mL.

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

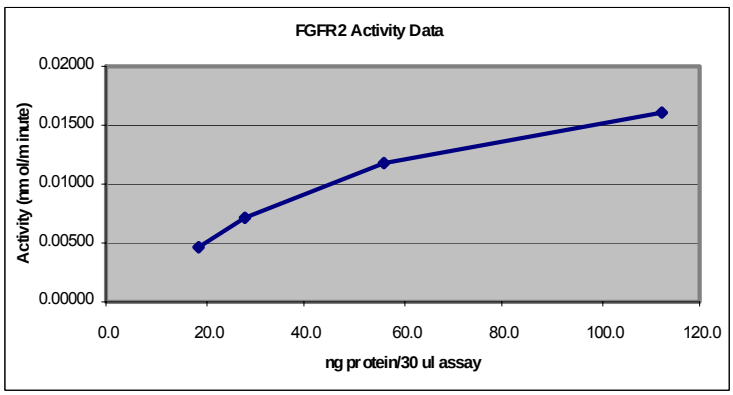
Storage and Handling:
Store at -80°C for long time. At first use, aliquot and to avoid multiple freeze-thaw cycles. If properly stored at -80°C, this product is guaranteed for 12 months from date of purchase. **Protein stable for 6 months at -20°C, for 3-5 h at 4°C and not stable at room temperature.**

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

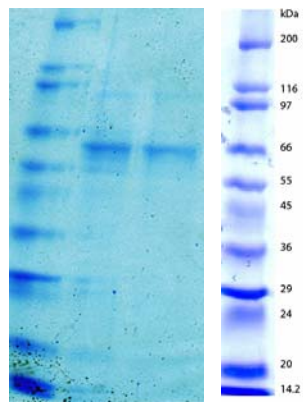
Enzyme Dilution Buffer:
50 mM Tris (pH 7.5), 10% Glycerol, 0.02% Triton® X-100, 0.1 mg/mL BSA, 0.5 mM Na_3VO_4, 2 mM DTT

Quality Assurance

Activity Graph:



PAGE Description:



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.

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: 3.2 µg FGFR2
Lane 3: 1.6 µg FGFR2

Purity:
≥75% as determined by a Coomassie blue-stained SDS-PAGE gel.

Molecular Weight:
54 kDa calculated from the sequence below.

Protein Sequence:

MSYYHHHHHH DYDIPTTENL YFQGAMGS**KN TTKKPDFSSQ PAVHKLTKRI PLRRQVTVSA ESSSSMNSNT PLVRITTRLS STADTPMLAG VSEYELPEDP** 100
KWEFPRDKLT LGKPLGEGCF GQVVMAEAVG IDKDKPKEAV TVAVKMLKDD ATEKDLSDLV SEMEMMKMIG KHKNIINLLG ACTQDGPLYV IVEYASKGNL 200
REYLRARRPP GMEYSYDINR VPEEQMTFKD LVSCTYQLAR GMEYLASQKC IHRDLAARNV LVTENNVMKI ADFGLARDIN NIDYYKKTTN GRLPVKWMAP 300
EALFDRVYTH QSDVWSFGVL MWEIFTLGGS PYPGIPVEEL FKLLKEGHRM DKPANCTNEL YMMMRDCWHA VPSQRPTFKQ LVEDLDRILT LTTNEEYLDL 400
SQPLEQYSPS YPDTRSSCSS GDDSVFSPDP MPYEPCLPQY PHINGSVKTS TLVAAAFESR ACSLEACGTK LVEKY. 476

402-822 amino acids from FGFR2 (GenBank Accession Number NP_075259) in bold.