Certificate of Analysis

REACTION BIOLOGY

ProQinase™ FGF-R1 V561M

(fibroblast growth factor receptor 1)

Recombinant Human Active Protein Kinase

Synonyms: b-FGF-R, FLT2

Product No.: 0890-0000-1

Lot: 003

Description: Human FGF-R1 V561M, internal fragment, amino acids M_{456}-E_{765} (as in GenBank entry NM_000604.2)*, V561M gatekeeper mutant, untagged, expressed in Sf9 insect cells

*Sequence may contain documented polymorphisms
Detailed aa-sequence on request

Product identity: FGF-R1 V561M Lot 003 was confirmed as FGF-R1 by mass spectroscopy LC-ESI-MS/MS

Theoretical $MW_{Protein}$: 35,899 Da

Expression: Baculovirus infected Sf9 cells

Purification: GST-Affinity Chromatography

Storage buffer: 50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol

Storage temperature: -80°C
Avoid repeated freeze-thaw cycles!

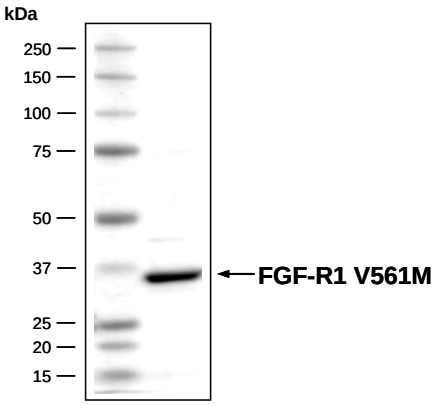
Protein concentration: 0.140 µg/µl
(Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein)

Determination of K_m value & 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
  50 µg / ml $PEG_{20.000}$
  ATP (variable)
  Substrate: $Poly(Ala,Glu,Lys,Tyr)_{6:2:5:1}$ (Sigma P-1152), 20 µg / ml
  FGF-R1 V561M: 0.6 µg / ml
- Filter binding assay
  MSFC membrane (Millipore)

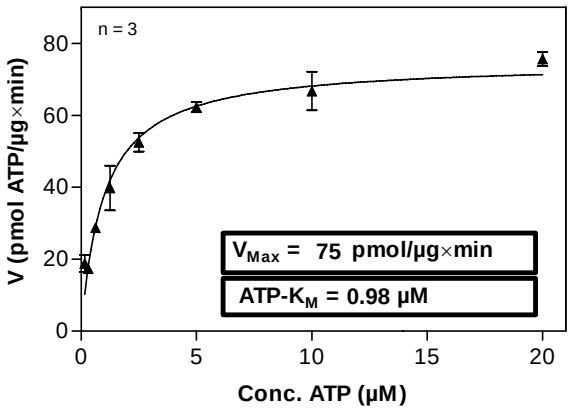
Specific activity: 75 pmol/µg×min

Coomassie stain:



2.0 µg FGF-R1 V561M

Determination of K_m value for ATP:



Recombinant Proteins