

# Certificate of Analysis

## FGR, 100 µg

Recombinant Human Gardner-Rasheed Feline Sarcoma Viral (v-fgr) Oncogene Homolog, Histidine-tagged



**Part Number:** PR4146B

**Lot Number:** 1226633B

**Immediate Storage:** -80°C

**Shipping Conditions:** dry ice

5791 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

Fax: 760.602.6500

www.lifetechnologies.com

### Description:

Human Recombinant Full-Length protein, Histidine-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

### Specific Activity:

370 nmoles of phosphate transferred to poly [Glu, Tyr] 4:1 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 2 µg/mL.

### Concentration:

0.18 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **2,900 nM**.

### Aliases:

c-fgr, p55c-fgr, SRC2

### Storage and Handling:

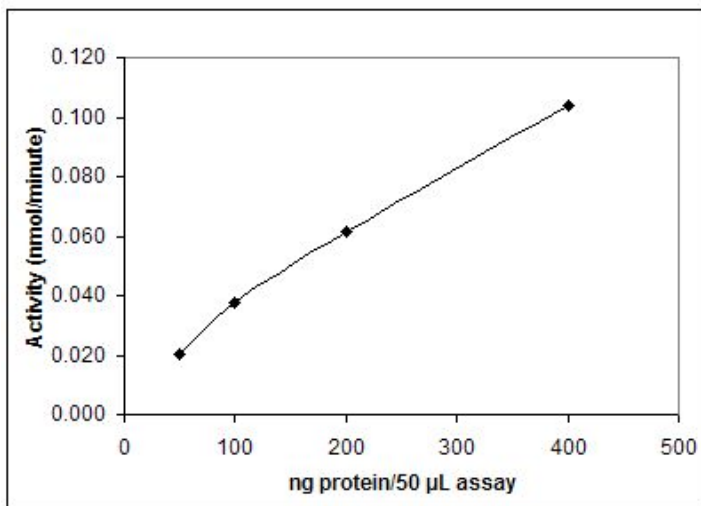
For maximum recovery please spin prior to use. Aliquots of the 5 µg, 10µg and 20µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

### Storage Buffer:

20 mM Tris (pH 7.5), 100 mM NaCl, 0.05 mM EDTA, 0.05% NP-40, 1 mM DTT and 50% Glycerol.

## QUALITY ASSURANCE

### FGR Activity Graph



### Dilution Buffer:

20 mM Tris (pH 7.5), 0.05% NP-40, 0.1 mg/mL BSA, 1 mM DTT and 10% Glycerol.

### Assay Conditions:

FGR was pre-diluted in enzyme dilution buffer and assayed in 50 mM HEPES (pH 7.5), 10 mM MgCl<sub>2</sub>, 2.5 mM DTT, 0.01% Triton® X-100, 200 µM ATP, 200 µg/mL poly [Glu, Tyr] 4:1 substrate and trace [<sup>32</sup>P]-γ-ATP for 10 minutes at 30°C.

### Gel Information for FGR

**Page Description:** The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex® gels (Catalog #: EC6025BOX).

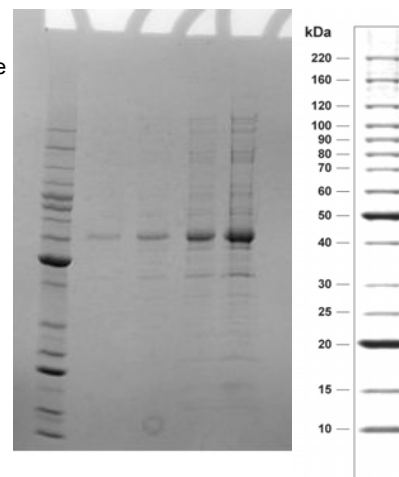
**Lane 1:** Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

**Lane 2:** 0.5 µg FGR

**Lane 3:** 1 µg FGR

**Lane 4:** 2.5 µg FGR

**Lane 5:** 5 µg FGR



### Purity:

80% as determined by a Coomassie® blue stained SDS-PAGE gel.

### Molecular Weight:

62.0 kDa calculated from the protein sequence(s). Calculated from the protein sequence(s).

### Mass Spectrometry:

FGR was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified FGR identity by comparison against the amino acid sequence(s) of the recombinant protein.

Protein sequence alignment with reference sequence(s)

GenBank Accession Numbers: NP\_005239, AAQ02485

1 MGCVFCKKLE PVATAKEDAG LEGDFRSYGA ADHYGPDPTK ARPASSFAHI PNYSNFSSQA INPGFLDSGT IRGVSIGIVT LFIALYDYEA RTEDDLTFTK IVGN FGR
1 MGCVFCKKLE PVATAKEDAG LEGDFRSYGA ADHYGPDPTK ARPASSFAHI PNYSNFSSQA INPGFLDSGT IRGVSIGIVT LFIALYDYEA RTEDDLTFTK NP\_005239
1 MGCVFCKKLE PVATAKEDAG LEGDFRSYGA ADHYGPDPTK ARPASSFAHI PNYSNFSSQA INPGFLDSGT IRGVSIGIVT LFIALYDYEA RTEDDLTFTK AAQ02485
101 GEKFHILNNT EGDWWEARSL SSGKTGCIPS NYVAPVDSIQ AEWEYFGKIG RKDAERQLLS PGNPQGAFLI RESETTKGAY SLSIRDWDQT RGDHVKHYKI
101 GEKFHILNNT EGDWWEARSL SSGKTGCIPS NYVAPVDSIQ AEWEYFGKIG RKDAERQLLS PGNPQGAFLI RESETTKGAY SLSIRDWDQT RGDHVKHYKI
101 GEKFHILNNT EGDWWEARSL SSGKTGCIPS NYVAPVDSIQ AEWEYFGKIG RKDAERQLLS PGNPQGAFLI RESETTKGAY SLSIRDWDQT RGDHVKHYKI
201 RKLDMGGYII TTRVQFNSVQ ELVQHYMEVN DGLCNLLIAP CTIMKPQTLG LAKDAWEISR SSITLERRLG TGCFGDVWLG TWNGSTKVAV KTLKPGTMSP
201 RKLDMGGYII TTRVQFNSVQ ELVQHYMEVN DGLCNLLIAP CTIMKPQTLG LAKDAWEISR SSITLERRLG TGCFGDVWLG TWNGSTKVAV KTLKPGTMSP
201 RKLDMGGYII TTRVQFNSVQ ELVQHYMEVN DGLCNLLIAP CTIMKPQTLG LAKDAWEISR SSITLERRLG TGCFGDVWLG TWNGSTKVAV KTLKPGTMSP
301 KAFLEEAQVM KLLRHDKLVQ LYAVVSEEEPI YIVTEFMCHG SLLDFLKNPE GODLRLPQLV DMAAQVAEGM AYMERMNYIH RDLRAANILV GERLACKIAD
301 KAFLEEAQVM KLLRHDKLVQ LYAVVSEEEPI YIVTEFMCHG SLLDFLKNPE GODLRLPQLV DMAAQVAEGM AYMERMNYIH RDLRAANILV GERLACKIAD
301 KAFLEEAQVM KLLRHDKLVQ LYAVVSEEEPI YIVTEFMCHG SLLDFLKNPE GODLRLPQLV DMAAQVAEGM AYMERMNYIH RDLRAANILV GERLACKIAD
401 FGLARLIKDD EYNPCQGSKF PIKWTAPEAA LFGFRFTIKSD VWSFGILLTE LITKGRIPYP GMNKREVLEQ VEQGYHMPCP PGCPASLYEA MEQWRLDPE
401 FGLARLIKDD EYNPCQGSKF PIKWTAPEAA LFGFRFTIKSD VWSFGILLTE LITKGRIPYP GMNKREVLEQ VEQGYHMPCP PGCPASLYEA MEQWRLDPE
401 FGLARLIKDD EYNPCQGSKF PIKWTAPEAA LFGFRFTIKSD VWSFGILLTE LITKGRIPYP GMNKREVLEQ VEQGYHMPCP PGCPASLYEA MEQWRLDPE
501 ERPTFEYLQS FLEDYFTSAE PQYQPGDQTL EACQLGTDYD DIPTTHHHHH H.
501 ERPTFEYLQS FLEDYFTSAE PQYQPGDQT
501 ERPTFEYLQS FLEDYFTSAE PQYQPGDQTL

\* highlighted residues denote differences from the reference protein sequence(s).

Becky Baker

Becky. Baker, QA Engineer II

Date: 26/Sep/2012

Novex® is a registered trademark of Life Technologies Corporation.

Invitrogen™ is a trademark of Life Technologies Corporation.

BenchMark™ is a trademark of Life Technologies Corporation.

Coomassie® is a registered trademark of Imperial Chemical Industries.

Triton® is a registered trademark of Union Carbide Chemicals and Plastics Co., Inc.

For questions, please contact our Technical Support Team

N. Am Ph#: 800-955-6288 or INTL Ph#: 760-603-7200 Select option 5, ext. 40266 Email: drugdiscoverytech@lifetech.com