# Certificate of Analysis IGF1R, 10 µg

Insulin-like Growth Factor 1 Receptor, Histidine-tagged

## Part Number: PV3250

Lot Number: 1681148E

### Immediate Storage: -80°C

## Shipping Conditions: dry ice



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#### Description:

Recombinant human protein, Catalytic Domain (amino acids 960 - 1367), Histidine-tagged, expressed in insect cells. Activated in vitro via autophosphorylation.

#### **Specific Activity:**

269 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  $\mu$ g/mL.

#### Concentration:

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

# Calculated 5,320 nM.

Aliases:

#### JTK13, CD221

Storage and Handling:

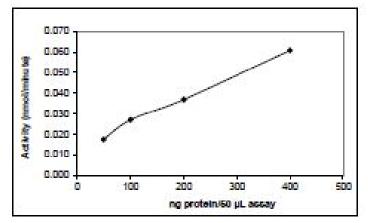
For maximum recovery please spin prior to use. Aliquots of the 5 ug, 10ug and 20ug sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20  $\mu L$  are not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

#### Storage Buffer:

50 mM Tris (pH 7.5), 100 mM NaCl, 0.5 mM EDTA, 0.05% Triton® X–100, 2 mM DTT and 50% Glycerol.

# QUALITY ASSURANCE

#### **IGF1R Activity Graph**



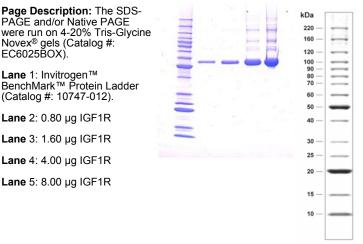
#### **Dilution Buffer:**

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

## Assay Conditions:

IGF1R 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<sup>®</sup> X-100, 10% Glycerol, 200  $\mu$ M ATP, 200  $\mu$ g/mL poly [Glu, Tyr] 4:1 substrate and trace [<sup>32</sup>P]- $\gamma$ -ATP for 10 minutes at 30°C.

#### Gel Information for IGF1R



# Purity:

70% as determined by a Coomassie® blue stained SDS-PAGE gel.

#### Molecular Weight:

48.9 kDa. Calculated from the protein sequence(s).

#### Mass Spectrometry:

IGF1R was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified IGF1R identity by comparison against the amino acid sequence(s) of the recombinant protein.

# **Certificate of Analysis**

## Protein sequence alignment with reference sequence(s)

#### GenBank Accession Number: NP\_000866

1 MRKRNNSRLG NGVLYASVNP EYFSAADVYV PDEWEVAREK ITMSRELGQG SFGMVYEGVA KGVVKDEPET RVAIKTVNEA ASMRERIEFL NEASVMKEFN IVGN IGF1R 960 -RKRNNSRLG NGVLYASVNP EYFSAADVYV PDEWEVAREK ITMSRELGQG SFGMVYEGVA KGVVKDEPET RVAIKTVNEA ASMRERIEFL NEASVMKEFN NP\_000866 101 CHHVVRLLGV VSQGQPTLVI MELMTRGDLK SYLRSLRPEM ENNPVLAPPS LSKMIQMAGE IADGMAYLNA NKFVHRDLAA RNCMVAEDFT VKIGDFGMTR 1059 CHHVVRLLGV VSQGQPTLVI MELMTRGDLK SYLRSLRPEM ENNPVLAPPS LSKMIQMAGE IADGMAYLNA NKFVHRDLAA RNCMVAEDFT VKIGDFGMTR 201 DIYETDYYRK GGKGLLPVRW MSPESLKDGV FTTYSDVWSF GVVLWEIATL AEQPYQGLSN EQVLRFVMEG GLLDKPDNCP DMLFELMRMC WQYNPKMRPS 1159 DIYETDYYRK GGKGLLPVRW MSPESLKDGV FTTYSDVWSF GVVLWEIATL AEQPYQGLSN EQVLRFVMEG GLLDKPDNCP DMLFELMRMC WQYNPKMRPS 301 FLEIISSIKE EMEPGFREVS FYYSEENKLP EPEELDLEPE NMESVPLDPS ASSSSLPLPD RHSGHKAENG PGPGVLVLRA SFDERQPYAH MNGGRKNERA 1259 FLEIISSIKE GVEACQLGTD DYDIPTTHHH HHH.

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

Michol Henlisedier

Nichole Reaksecker, QA Manager

Date: 12/Feb/2015

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