

Recombinant Human FGFR-1/FLT-2/CD331 (V561M) Protein

Catalog No.: RP03330LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2260	P11362

Tags

N-His-GST

Synonyms

FGFR1; BFGFR; CEK; FGFR; FLG; FLT2; HBGFR; CD331; FGFR-1; Fibroblast growth factor receptor 1

Product Information

Source	Purification
Baculovirus-Insect Cells	> 85% by SDS-PAGE and HPLC

Calculated MW	Observed MW
75.5 kDa	70-85 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Background

FGFR1 also known as CD331 is a member of the fibroblast growth factor receptor (FGFR) family, which in addition to FGFR1, includes FGFR2, FGFR3, FGFR4, and FGFR5. FGFR1-4 are cell surface membrane receptors that possess tyrosine kinase activity. A full-length representative of these four receptors consists of an extracellular region composed of three immunoglobulin-like domains which bind their proper ligands, the FGFs, a single hydrophobic stretch which passes through the cell's surface membrane, and a cytoplasmic tyrosine kinase domain. FGFR1, when bound to a proper FGF, elicits cellular responses by activating signaling pathways that include the: a) Phospholipase C/PI3K/AKT, b) Ras subfamily/ERK, c) Protein kinase C, d) IP3-induced raising of cytosolic Ca²⁺, and e) Ca²⁺/calmodulin-activated elements and pathways.

Basic Information

Description

Recombinant Human FGFR-1/FLT-2/CD331 (V561M) Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Lys398-Arg822 (V561M)) of Human FGFR1 (Accession #P11362) fused with a N-His-GST tag.

Bio-Activity

The activity of FGFR1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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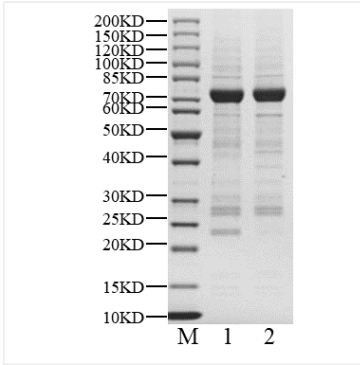
Contact

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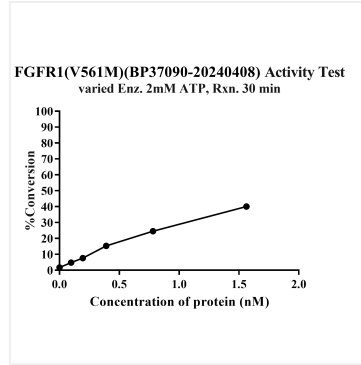
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Validation Data



Recombinant Human FGFR-1/FLT-2/CD331 (V561M) Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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