FGFR1 (V561M), GST-tag Recombinant

Catalog: 40209
Lot: 240126

Product Information

Description:	Recombinant human FGFR1 (fibroblast growth factor receptor 1), encompassing amino acids 399-822. This construct contains an N-terminal GST-tag and the mutation of interest V561M. The recombinant protein was affinity purified and is active.
Species:	Human
Construct:	FGFR1 (V561M) (GST-399-822)
Concentration:	0.10 mg/ml
Expression System:	Sf9
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM Glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol
MW:	75 kDa
Genbank Accession:	NM_023110
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Specific Activity:	30 pmol/min/µg
Assay Conditions:	FGFR1 (V561M) activity was measured by using the Poly(Glut4Tyr1) synthetic peptide, diluted in 25 mM Tris-HCl (pH 7.5) to a working concentration of 1 mg/ml, in the ADP Glo™ Kinase Assay kit (Promega #V9101). Reaction was initiated by mixing increasing amounts of FGFR1 (V561M) with 25 µM ATP in 40 mM Tris-HCl, pH 7.4, 20 mM $MnCl_2$, 0.1 mg/ml BSA prepared with 50 µM DTT, 12.5 mM $MgCl_2$ and substrate at a final concentration of 200 µg/ml. After a 40-minute incubation at room temperature, the reaction was terminated by addition of ADP-Glo™ Reagent, followed by a subsequent 40-minute incubation at room temperature. Kinase Detection Reagent was added, and the reaction was incubated for another 30 minutes at ambient temperature. Detection of luminescence was measured using the Luminescence Module Protocol on GloMax®-Multi Microplate Multimode Reader. The Specific Activity was calculated as follows: (Corrected activity, RLU) / [(Specific activity from ADP in RLU/pmol) * (Reaction time in min) *(Enzyme amount in µg or mg)]. Corrected RLU was calculated by subtracting the blank value from all the values. The blank was determined from a “no enzyme” sample by replacing the enzyme solution with an equal volume of Kinase Dilution Buffer X (1x).
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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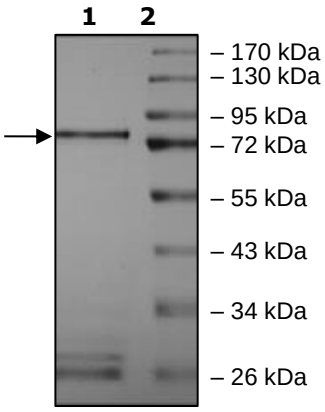
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Specific Activity