

Rhesus FGFR4 / FGF Receptor 4 Protein (Fc Tag)

Catalog Number: 90134-C02H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

FGFR4

Protein Construction:

A DNA sequence encoding the rhesus FGFR4 (Met1-Asp369) (XP_001087243.1) was expressed with the Fc region of mouse IgG1 at the C-terminus.

Source: Rhesus

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. 1. Immobilized human FGF18-His (Cat: 13206-H08H) at 10 µg/ml (100 µl/well) can bind cynoFGFR4-Fc (Cat: 90134-C02H) with a linear range of 0.25-2.0 µg/ml. 2. Immobilized human FGF basic (Cat: 10014-HNAE) at 10 µg/ml (100 µl/well) can bind cynoFGFR4-Fc (Cat: 90134-C02H) with a linear range of 0.03-0.25 µg/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 22

Molecular Mass:

The recombinant rhesus FGFR4 comprises 589 amino acids and has a calculated molecular mass of 65.6 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

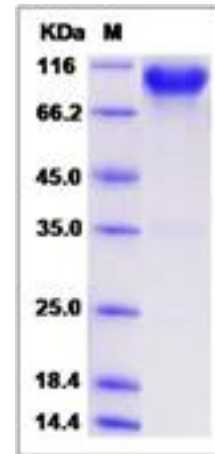
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Fibroblast growth factor receptor 4 (FGFR4) also known as CD334 antigen or tyrosine kinase related to fibroblast growth factor receptor, is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of FGFR4/CD334 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. FGFR4/CD334 preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. FGFR4/CD334 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and degradation of FGFR4/CD334. Mutations in FGFR4/CD334 lead to constitutive kinase activation or impair normal FGFR4 inactivation lead to aberrant signaling.

References

1.Hart KC, *et al.* (2000) Transformation and Stat activation by derivatives of FGFR1, FGFR3, and FGFR4. *Oncogene*. 19(29): 3309-20. 2.Xie MH, *et al.* (1999) FGF-19, a novel fibroblast growth factor with unique specificity for FGFR4. *Cytokine*. 11(10): 729-35. 3.Yu C, *et al.* (2000) Elevated cholesterol metabolism and bile acid synthesis in mice lacking membrane tyrosine kinase receptor FGFR4. *J Biol Chem*. 275(20): 15482-9.

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