

Recombinant Mouse Fgfr4 protein, His-tagged

Cat. No. Fgfr4-709M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Fgfr4 (Leu17-Asp366) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).

Species Mouse

Source HEK293

ProteinLength Leu17-Asp366

Description

Fibroblast growth factor receptor 4 (FGFR4) is also known as CD334, JTK2, hydroxyaryl-protein kinase, TKF, protein-tyrosine kinase. The FGFR4 gene provides instructions for making a protein called fibroblast growth factor receptor 4. This protein is part of a family of fibroblast growth factor receptors that share similar structures and functions. These receptor proteins play a role in important processes such as cell division, regulating cell growth and maturation, formation of blood vessels, wound healing, and embryo development. The FGFR4 protein interacts with specific growth factors to conduct signals from the environment outside the cell to the nucleus. The nucleus responds to these signals by switching on or off appropriate genes that help the cell adjust to changes in the environment. In response, the cell might divide, move, or mature to take on specialized functions. Although specific functions of FGFR4 remain unclear, studies indicate that the gene is involved in muscle development and the maturation of bone cells in the skull. The FGFR4 gene may also play a role in the development and maintenance of specialized cells (called foveal cones) in the light-sensitive layer (the retina) at the back of the eye.

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Predicted N Terminal	Leu17
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 40.7 kDa. The protein migrates as 55-67 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Fgfr4
Official Symbol	Fgfr4
Synonyms	FGFR4; fibroblast growth factor receptor 4; CTLA-2-beta protein; protein-tyrosine kinase receptor MPK-11; fibroblast growth factor receptor 4 16 minus form; Fgfr-4
Gene ID	14186

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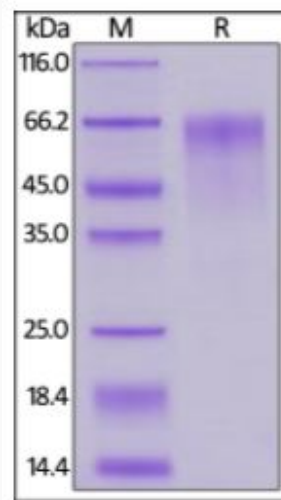
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mRNA Refseq [NM_008011](#)

Protein Refseq [NP_032037](#)

UniProt ID [Q03142](#)

**SDS-PAGE of Fgfr4-
709M**



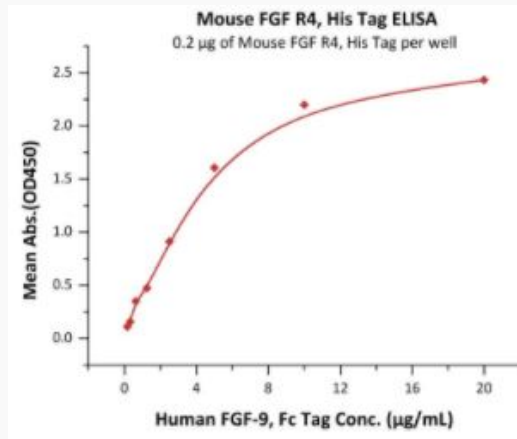
Mouse FGF R4 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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**Bioactivity-ELISA of
Fgfr4-709M**



Immobilized Mouse FGF R4, His Tag at 2 µg/mL (100 µL/well) can bind Human FGF-9, Fc Tag with a linear range of 0.156-5 µg/mL (QC tested).

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