Product Data Sheet

Proteins



Cat. No.: HY-P73060

Synonyms: Fibroblast growth factor receptor 4; FGFR-4; CD334; JTK2; TKF

FGFR-4 Protein, Mouse (HEK293, His-Fc)

Species: Source: HEK293

Q03142 (M1-D366) Accession:

Gene ID: 14186

Molecular Weight: 100-110 kDa

PROPERTIES

AA C	
AA Sequence	MWLLLALLSI FQGTPALSLE ASEEMEQEPC LAPILEQQEQ VLTVALGQPV RLCCGRTERG RHWYKEGSRL ASAGRVRGWR GRLEIASFLP EDAGRYLCLA RGSMTVVHNL TLLMDDSLTS ISNDEDPKTL SSSSSGHVYP QQAPYWTHPQ RMEKKLHAVP AGNTVKFRCP AAGNPMPTIH WLKDGQAFHG ENRIGGIRLR HQHWSLVMES VVPSDRGTYT CLVENSLGSI RYSYLLDVLE RSPHRPILQA GLPANTTAVV GSDVELLCKV YSDAQPHIQW LKHVVINGSS FGADGFPYVQ VLKTTDINSS EVEVLYLRNV
	SAEDAGEYTC LAGNSIGLSY QSAWLTVLPE EDLTWTTATP EARYTD
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

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Background

FGFR-4 Protein is a tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors, regulating cell proliferation, differentiation, migration, lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism, and phosphate homeostasis. It is essential for the normal down-regulation of CYP7A1 expression, the enzyme involved in bile acid synthesis, in response to FGF19. Upon ligand binding, FGFR-4 phosphorylates PLCG1 and FRS2, leading to the activation of multiple signaling cascades. Activation of PLCG1 results in the production of diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 recruits GRB2, GAB1, PIK3R1, and SOS1, activating the RAS, MAPK1/ERK2, MAPK3/ERK1, and AKT1 signaling pathways. FGFR-4 also facilitates the SRC-dependent phosphorylation and lysosomal degradation of MMP14, a matrix protease, with MMP14 aiding in the internalization and degradation of FGFR-4. In addition, FGFR-4 plays a role in postnatal lung development and may be involved in skeletal muscle cell lineage development.

Caution: Product has not been fully validated for medical applications. For research use only.

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