

Human FGFR1 alpha (IIIc) Protein

Cat. No. FGF-HM4RA

Description

Source	Recombinant Human FGFR1 alpha (IIIc) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Arg22-Glu374.
Accession	P11362-7
Molecular Weight	The protein has a predicted MW of 42 kDa. Due to glycosylation, the protein migrates to 68-83 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

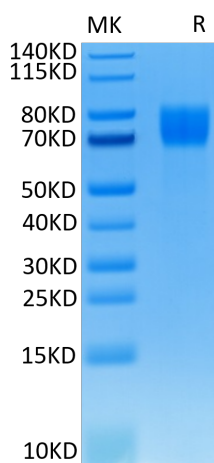
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

Fibroblast growth factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. FGFR1 is tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system.

Assay Data

Tris-Bis PAGE



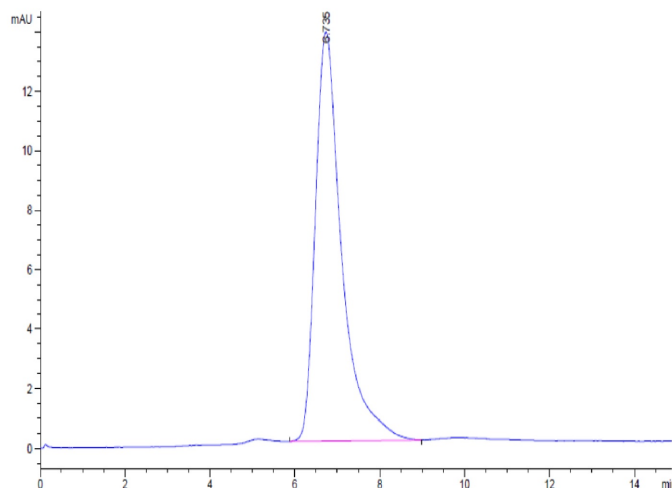
Human FGFR1 alpha (IIIc) on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

Human FGFR1 alpha (IIIc) Protein

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Assay Data

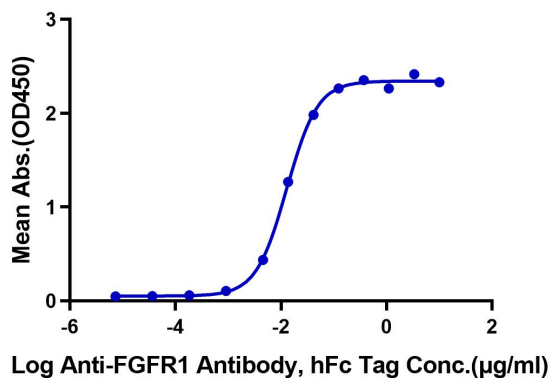


The purity of Human FGFR1 alpha (IIIc) is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human FGFR1 alpha (IIIc), His Tag ELISA

0.05µg Human FGFR1 alpha (IIIc), His Tag Per Well



Immobilized Human FGFR1 alpha (IIIc) at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-FGFR1 Antibody, hFc Tag with the EC50 of 12.9ng/ml determined by ELISA.