

Human FGFR1 alpha (IIIc) Protein

Cat. No. FGF-HM2AC



Description

Source	Recombinant Human FGFR1 alpha (IIIc) Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Arg22-Glu374.
Accession	P11362-7
Molecular Weight	The protein has a predicted MW of 65.08 kDa. Due to glycosylation, the protein migrates to 90-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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

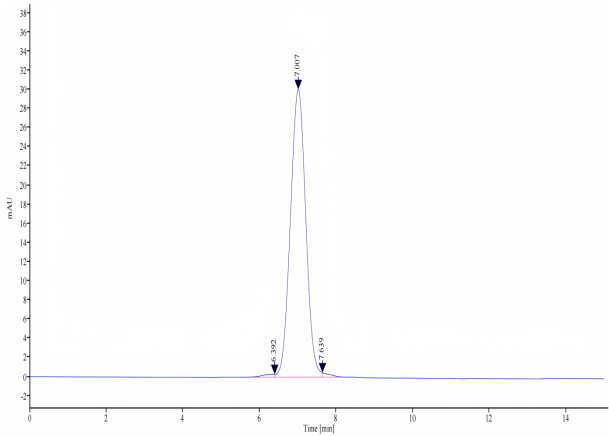
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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

Human FGFR1 alpha (IIIc) Protein

Cat. No. FGF-HM2AC

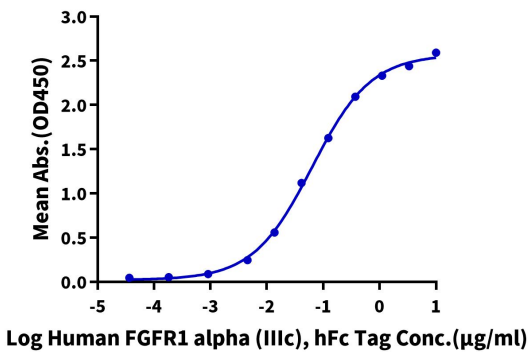


Assay Data

ELISA Data

Human FGFR1 alpha (IIIc), hFc Tag ELISA

0.1µg Biotinylated Human FGF1, His Avi Tag Per Well



Immobilized Biotinylated Human FGF1, His Avi Tag (Cat. FGF-HE40AB) at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human FGFR1 alpha (IIIc), hFc Tag with the EC50 of 63.5ng/ml determined by ELISA.