

For Research Use Only

Recombinant Human FGFR2(IIIc) protein (hFc Tag, Myc Tag, His Tag)(HPLC verified)

Catalog Number: Eg0193



Basic Information

Species:
Human

Purity:
>95 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
hFc Tag, Myc Tag, His Tag
EC50:
75-300 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human FGFR2 (IIIc) protein Arg22-Glu377 (Accession# P21802-1) with a human IgG1 Fc tag, a Myc tag and a His tag at the C-terminus.

GeneID:
2263

Accession:
P21802-1

Predicted Molecular Mass:
68 kDa

SDS-PAGE:
85-100 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human FGF basic (His tag) at 1 μ g/mL (100 μ L/well) can bind Human FGFR2 (IIIc) (hFc tag, Myc tag, His tag) with a linear range of 75-300 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

FGFR2 (Fibroblast growth factor receptor 2) is a tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis. Ligand binding leads to the activation of several signaling pathway, such as RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP Kinase signaling pathway, as well as the AKT1 signaling pathway. Mutations in the gene of FGFR2 are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis.

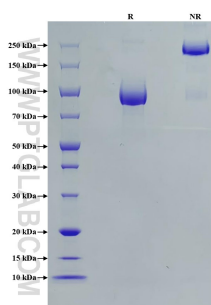
References

- 1.Eswarakumar VP, et al. (2005). Cytokine Growth Factor Rev. 16(2):139-149.
- 2.Pike, KG. (2017). Topics in Medicinal Chemistry. 8.
- 3.Azoury SC, et al. (2017). Int J Biol Sci. 13(12):1479-1488.

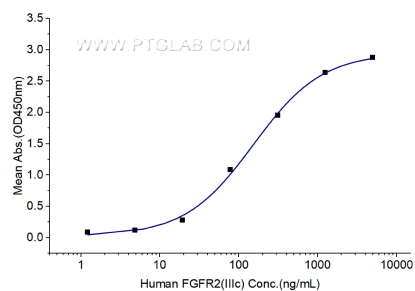
Synonyms

FGFR2, BEK, BFR 1, CD332, CEK3

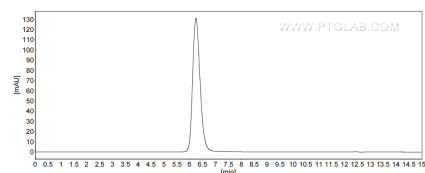
Selected Validation Data



Purity of Recombinant Human FGFR2 (IIIc) was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human FGF basic (His tag) at 1 μ g/mL (100 μ L/well) can bind Human FGFR2 (IIIc) (hFc tag, Myc tag, His tag) with a linear range of 75-300 ng/mL



The purity of Human FGFR2(IIIc) was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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