

For Research Use Only

Recombinant Human FGFR3 (IIIb) protein (hFc Tag, Myc Tag, His Tag)(HPLC verified)

Catalog Number: Eg0194



Basic Information

Species:
Human

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

Tag:
hFc Tag, Myc Tag, His Tag
EC50:
95-380 ng/mL

Technical Specifications

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

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

Source:
HEK293-derived Human FGFR3 (IIIb) protein Glu23-Gly377 (Accession# P22607-2) with a human IgG1 Fc tag, a Myc tag and a His tag at the C-terminus.

GeneID:
2261

Accession:
P22607-2

Predicted Molecular Mass:
67.1 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 FGFR3 (IIIb) (hFc tag, Myc tag, His tag) with a linear range of 95-380 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

FGFR3 (Fibroblast growth factor receptor 3) is a tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors. FGFR3 binds acidic and basic fibroblast GH and plays important roles in development, osteogenesis, and bone maintenance. FGFR3 is highly expressed in chondrocytes and osteoblasts, and germline mutations are associated with bone growth disorders such as achondroplasia, chondrodysplasia, and thanatophoric dysplasia. Due to frequent mutations in certain cancers, FGFR3 gene has also been associated with tumor progression.

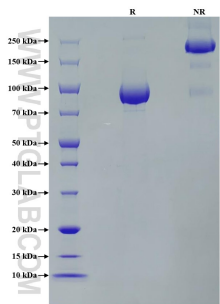
References

- 1.Eswarakumar VP, et al. (2005). Cytokine Growth Factor Rev. 16(2):139-149.
- 2.Tiong KH, et al. (2013). Apoptosis. 18(12):1447-1468.
- 3.Kacew A, et al. (2020). Front Immunol. 11:575258.
- 4.Horton WA, et al. (2007). Lancet. 370(9582):162-172.

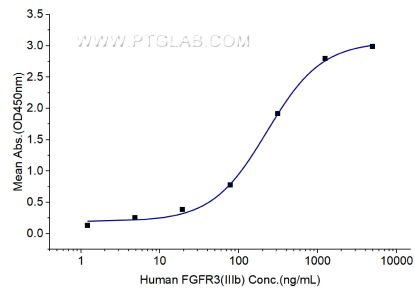
Synonyms

FGFR3, ACH, CD333, CEK2, FGFR 3

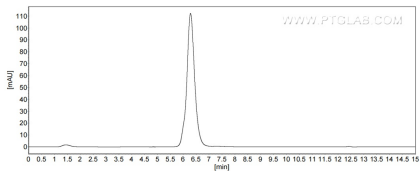
Selected Validation Data



Purity of Recombinant Human FGFR3 (IIIb) 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 FGFR3 (IIIb) (hFc tag, Myc tag, His tag) with a linear range of 95-380 ng/mL



The purity of Human FGFR3 (IIIb) was greater than 90% as determined by SEC-HPLC.