For Research Use Only

Recombinant Human FGFR3(IIIc) protein (His Tag)

www.ptgcn.com

Catalog Number: Eg1040

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human FGFR3(IIIc) protein Glu23-Gly375 (Accession# P22607-1) with a His tag at the C-terminus.

GeneID:
2261

Accession:
P22607-1

Predicted Molecular Mass:
38.9 kDa

SDS-PAGE:
50-70 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

Not tested

Storage and Shipping

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

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

Fibroblast growth factors (FGFs) are polypeptide growth factors involved in a variety of activities including mitogenesis, angiogenesis, and wound healing. The human FGF receptor family, a subfamily of receptor tyrosine kinases (RTKs), comprises of four family members-FGFR1, FGFR2, FGFR3, and FGFR4. Each receptor contains an extracellular domain with either two or three immunoglobulin-like domains, a transmembrane domain, and a cytoplasmic tyrosine kinase domain. FGFR3 plays a key role in different important physiological cellular processes such as regulation of cell growth, proliferation, angiogenesis, among the others. Moreover, FGFR3 binds acidic and basic fibroblast GH and plays a role in bone development and maintenance. Mutations in the FGFR3 gene lead to craniosynostosis and multiple types of skeletal dysplasia.

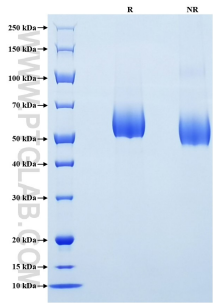
References

1. K Keegan. et al. (1991). Proc Natl Acad Sci U S A. 88(4):1095-9.
2. Kai Hung Tiong. et al. (2013). Apoptosis.18(12):1447-1468.
3. C Deng. et al. (1996). Cell.84(6):911-921.
4. Claudia Maria Ascione. et al. (2023). Cancer Treat Rev.115:102530.

Synonyms

FGFR3, ACH, CD333, CEK2, FGFR 3

Selected Validation Data



Purity of Recombinant Human FGFR3(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.