For Research Use Only

Recombinant Human BTC protein (rFc Tag) (HPLC verified)

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Catalog Number: Eg4618

Basic Information

Species:
Human

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

Tag:
rFc Tag

Technical Specifications

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

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human BTC protein Asp32-Gln118 (Accession# P35070) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
685

Accession:
P35070

Predicted Molecular Mass:
36.0 kDa

SDS-PAGE:
45-52 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

Betacellulin (BTC), a member of the epidermal growth factor (EGF) family, binds and activates ErbB1 and ErbB4 homodimers. BTC is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor. BTC was expressed in tumors and involved in tumor growth progression.

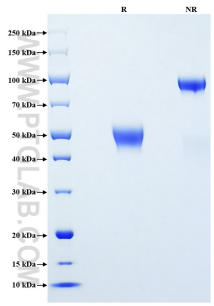
References

1. Shi L. et al. (2014). J Transl Med. 12:70.
2. Mansergh FC. et al. (2015). Mol Vis. 21:61-87.
3. Chava S. et al. (2022). iScience. 25(5):104211.

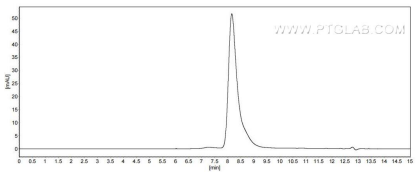
Synonyms

Betacellulin, Probetacellulin

Selected Validation Data



Purity of Recombinant Human BTC 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.



The purity of Human BTC was greater than 90% as determined by SEC-HPLC.