

For Research Use Only

Recombinant Human REG3A protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2893

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 REG3A protein Glu27-Asp175 (Accession# Q06141) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
5068

Accession:
Q06141

Predicted Molecular Mass:
45.8 kDa

SDS-PAGE:
40-47 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°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

Regenerating islet-derived protein 3-α (REG3A), also known as hepatocarcinoma-intestine pancreas/pancreatic associated protein or HIP/PAP, is a secreted 16 kDa carbohydrate-binding protein that functions as an AMP against Gram-positive bacteria. REG3A is reported to be associated with diseases in a variety of organs and tissues such as pancreas, gastrointestinal tract, liver, heart, and skin. REG3A expression is highly upregulated in inflamed pancreas and gastrointestinal tract. The main biological functions of REG3A are related to cell proliferation, regeneration, resistance to cell death, and tissue repair after inflammatory injury.

References

1. Guo J. et al. (2021) Mol Cells. 44(9):647-657.
2. Wang L. et al. (2021) Bioengineered. 12(1):7644-7655.
3. Gonzalez P. et al. (2023) Commun Biol. 6(1):269.
4. Yu L. et al. (2023) Biomed Pharmacother. 169:115922.

Synonyms

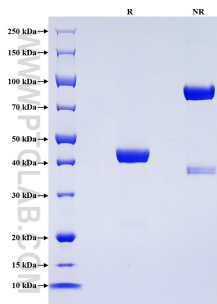
Hepatointestinal pancreatic protein, HIP, HIP/PAP, Pancreatitis-associated protein 1, Reg III-α

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

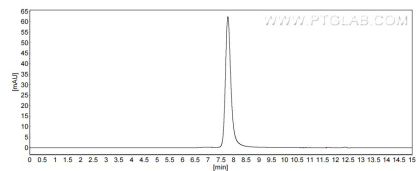
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Selected Validation Data



Purity of Recombinant Human REG3A 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 REG3A was greater than 90% as determined by SEC-HPLC.