

For Research Use Only

Recombinant Mouse Reg2 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2693

Basic Information

Species:
Mouse

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

Tag:
rFc Tag

Technical Specifications

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

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

Source:
HEK293-derived Mouse Reg2 protein Gln23-Ala173 (Accession# Q08731) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
19693

Accession:
Q08731

Predicted Molecular Mass:
42.9 kDa

SDS-PAGE:
40-46 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°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 2 (Reg2) is a trophic factor that stimulates β -cell replication and protects against islet destruction. Reg2 also serves as an islet autoantigen that induces autoimmune assaults on the islets and worsens diabetic progression. Injection of Reg2 protein into NOD mice can delay the course of diabetes at an early stage and improve the anti-apoptosis ability of pancreatic β cells.

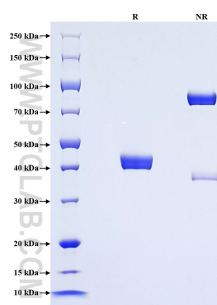
References

- 1.Zhou YH., et al. (2024) Biochem Pharmacol. 227:116444.
- 2.Yu L, et al. (2019) Diabetes Obes Metab. 21(5):1209-1222.
- 3.Huszarik K, et al. (2010) J Immunol. 185(9):5120-9.

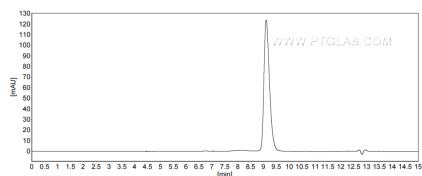
Synonyms

Islet of Langerhans regenerating protein 2, Lithostathine-2, Pancreatic stone protein 2, Pancreatic thread protein 2, PSP

Selected Validation Data



Purity of Recombinant Mouse Reg2 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 Mouse Reg2 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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