For Research Use Only

Recombinant Mouse IGFBP4 protein (rFc Tag)

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Catalog Number: Eg10275

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Mouse IGFBP4 protein Asp22-Glu254 (Accession# P47879) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16010

Accession:
P47879

Predicted Molecular Mass:
51.3 kDa

SDS-PAGE:
55-66 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

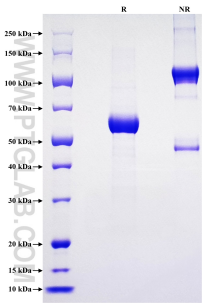
IGFBP4 (insulin-like growth factor-binding protein 4) is a secreted glycoprotein that binds IGF-I and IGF-II, modulating their bioavailability and signaling. Structurally, it contains an IGFBP domain and a thyroglobulin type-I domain, and its expression is regulated by promoter methylation via MYBBP1A. IGFBP4 participates in several signaling pathways, including negative regulation of canonical Wnt signaling and positive regulation of IGF receptor signaling, and is involved in MAPK cascade, glucose metabolism, and pancreatic β cell proliferation. It is being investigated as a prognostic biomarker in liver, renal, endometrial and gastric cancers, and as a therapeutic target in diabetes and Alzheimer's disease

References

1.Liang, Jieling et al. Renal failure vol. 47,1 (2025): 2440528.
2.Sun, Yujing et al. International journal of oncology vol. 66,1 (2025): 4.
3.Ke, Hongqin et al. Experimental eye research, vol. 270 111107. 4 Jun. 2026,

Synonyms

Selected Validation Data



Purity of Recombinant Mouse IGFBP4 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.

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

T: 027-87531629 E: Proteintech-CN@ptglab.com W: ptgcn.com

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