

For Research Use Only

Recombinant Mouse IGFBP-3 protein (His Tag)



Catalog Number: Eg0513

Basic Information

ED50:
0.05-0.2 µg/mL

GeneID:
16009

Species:
Mouse

Accession:
CAA57271.1

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ µg protein, LAL method

Source:
HEK293-derived Mouse IGFBP-3 protein Pro22-Gln291 (Accession# CAA57271.1, Arg250Gln, Gln259Arg, Ser260Gly, Arg271Pro) with a His tag at the C-terminus.

Predicted Molecular Mass:
30.4 kDa

SDS-PAGE:
45-55 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Measured by its ability to inhibit the biological activity of IGF-I or IGFII on MCF-7 human breast cancer cells. The ED50 for this effect is 0.05-0.2 µg/mL in the presence of 30 ng/mL Recombinant human IGF-I.

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

Insulin-like growth factor binding protein-3 (IGFBP-3) contains a 27 amino acid putative signal sequence followed by a mature protein of 264 amino acids with 18 cysteine residues clustered near the N- and C-terminus. Accordingly, expression of the cloned IGFBP-3 cDNA in mammalian tissue culture cells results in secretion of the protein into the culture medium. IGFBP-3 shares high homology (33% amino acid identity) including conservation of all 18 cysteine residues with a smaller human IGF-binding protein (BP-28) identified in amniotic fluid. IGFBP-3 has one or more glycosylation sites with a protein core of 30 kDa. Western blots revealed that the 39-45 kDa IGFBP-3 fragment is a glycoprotein.

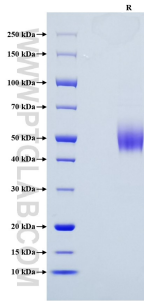
References

1. Miljuš, G., Malenković, V., & Nedić, O. (2013). *Metallomics*, 5(3), 251–258.
2. Renes, J. S., van Doorn, J., & Hokken-Koelega, A. C. (2014). *J Clin Endocrinol Metab*, 99(10):E1988-E1996.
3. Jia Y, Lee KW, Swerdloff R, et al. (2010). *J Biol Chem*, 285(3), 1726–1732.

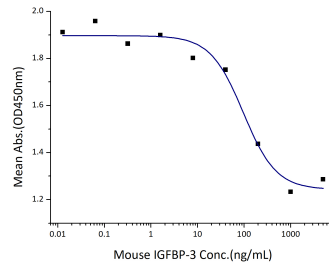
Synonyms

BP-53, IBP3, IGFBP3, IGFBP-3

Selected Validation Data



Purity of Recombinant Mouse IGFBP-3 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



Measured by its ability to inhibit the biological activity of IGF-I or IGFII on MCF-7 human breast cancer cells. The ED50 for this effect is 0.05-0.2 µg/mL in the presence of 30 ng/mL Recombinant human IGF-I.

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

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