

Recombinant Human IGFBP-1 protein (His Tag)

Catalog Number: Eg0951

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human IGFBP-1 protein Ala26-Asn259 (Accession# P08833) with a His tag at the C-terminus.

GeneID:

3484

Accession:

P08833

Predicted Molecular Mass:

26.3 kDa

SDS-PAGE:

28-32 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

IGFBP-1 (Insulin-like growth factor binding protein-1) belongs to the insulin-like growth factor (IGF) system, which plays an indispensable role in normal growth and development, and in the pathophysiology of various tumors. IGFBP-1 has been shown to be associated with the risk of various tumors, and has a vital function in regulating tumor behaviors such as proliferation, migration, invasion and adhesion through different molecular mechanisms. In addition, As a secreted protein, IGFBP-1 is the most predominant IGFBP in amniotic fluid and expressed steadily and normally in the liver, endometrium and placenta among them. But insulin that can inhibit IGFBP-1 expression through the insulin receptor and growth hormone can regulate IGFBP-1 expression.

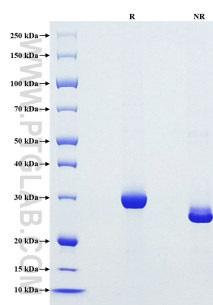
References

1. Yi-Wei Lin. et al. (2021). Am J Transl Res. 13(3):813-832.
2. Linn Fagerberg. et al. (2014). Mol Cell Proteomics. 13(2):397-406.
3. T G Unterman. et al. (1991). Endocrinology.128(6):2693-2701.

Synonyms

IGFBP1, AFBP, hIGFBP 1, IBP 1, IBP1

Selected Validation Data



Purity of Recombinant Human IGFBP-1 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

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