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# Recombinant Human IGFBP-2 protein (His Tag)

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Catalog Number: Eg0823

## Basic Information

**Species:**
Human

**Purity:**
>90 %, SDS-PAGE

**Tag:**
His Tag

## Technical Specifications

**Purity:**
>90 %, SDS-PAGE

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

**Source:**
HEK293-derived Human IGFBP-2 protein Ala36-Gln325 (Accession# P18065) with a His tag at the C-terminus.

**GeneID:**
3485

**Accession:**
P18065

**Predicted Molecular Mass:**
32.5 kDa

**SDS-PAGE:**
29-34 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℃ 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

IGFBP2, also known as BP2 and IBP2, is a member of the IGFBP family. It is predominantly expressed in fetal tissues that are highly proliferative, such as the early post-implantation epiblast, the ventricular zone of the rostral neuroepithelium, and has been found to be highly expressed in many cancers. It is a promising protein in non-communicable diseases such as obesity, insulin resistance, metabolic syndrome or type 2 diabetes. IGFBP2 mediates IGF-independent tumorigenesis by participating in intracellular and nuclear regulatory networks and may serve as an excellent prognostic biomarker in various cancers.

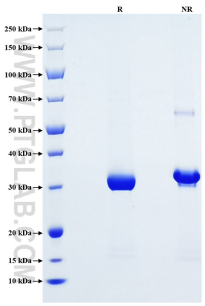
## References

1. Li T. et al. (2020) Oncogene. 39(11):2243-2257.
2. Boughanem H. et al. (2021) Int J Mol Sci. 22(3):1133.
3. Zhang B. et al. (2022) Cancer Med. 11(16):3035-3047.

## Synonyms

IGFBP2, BP 2, BP2, IBP 2, IBP2

## Selected Validation Data




Purity of Recombinant Human IGFBP-2 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.