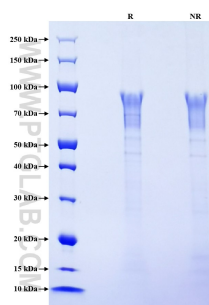


# Recombinant Human IBSP protein (His Tag)

Catalog Number: Eg4999

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                        |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------|
| Basic Information        | <b>Species:</b><br>Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Purity:</b><br>>85 %, SDS-PAGE | <b>Tag:</b><br>His Tag |
| Technical Specifications | <b>Purity:</b><br>>85 %, SDS-PAGE<br><b>Endotoxin Level:</b><br><0.1 EU/ µg protein, LAL method<br><b>Source:</b><br>HEK293-derived Human IBSP protein Phe17-Gln317 (Accession# P21815) with a His tag at the C-terminus.<br><b>GeneID:</b><br>3381<br><b>Accession:</b><br>P21815<br><b>Predicted Molecular Mass:</b><br>34.6 kDa<br><b>SDS-PAGE:</b><br>60-90 kDa, reducing (R) conditions<br><b>Formulation:</b><br>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     | <b>Storage:</b><br>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <b>Shipping:</b><br>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               | Integrin-binding sialoprotein (IBSP), also known as Bone sialoprotein 2 (BSP2), is a glycoprotein that is mainly expressed in bone tissue. IBSP participates the coding of bone matrix and has a large influence on the formation, update, and repair of bones. High levels of IBSP have been found in various types of cancer, including colorectal cancer breast, esophageal squamous cell carcinoma. IBSP plays a significant role in tumor growth, invasion, and metastasis by promoting angiogenesis, cell migration and adhesion, and immune micro environment.   |                                   |                        |
| References               | <ol style="list-style-type: none"><li>1.Chen Y. et al. (2021) Cancer Med. 10(12):4030-4045.</li><li>2.Pan B. et al. (2023) Front Immunol. 14:1188256.</li><li>3.Ma Y. et al. (2023) Aging (Albany NY). 16(1):28-42.</li><li>4.Ding W. et al. (2024) Cancer Rep (Hoboken). 7(8):e2153.</li></ol>                                                                                                                                                                                                                                                                         |                                   |                        |
| Synonyms                 | BNSP, Bone sialoprotein 2, Bone sialoprotein II, Cell binding sialoprotein, integrin binding sialoprotein                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |                        |

## Selected Validation Data



Purity of Recombinant Human IBSP 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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