

## Recombinant Human IBSP Protein, His-tagged

Cat. No. IBSP-376H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Human IBSP Protein (Phe17-Gln317) with N-His tag was expressed in 293F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Phe17-Gln317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | The protein encoded by this gene is a major structural protein of the bone matrix. It constitutes approximately 12% of the noncollagenous proteins in human bone and is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts. The only extraskeletal site of its synthesis is the trophoblast. This protein binds to calcium and hydroxyapatite via its acidic amino acid clusters, and mediates cell attachment through an RGD sequence that recognizes the vitronectin receptor. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 35.1 kDa<br>Accurate Molecular Mass: 66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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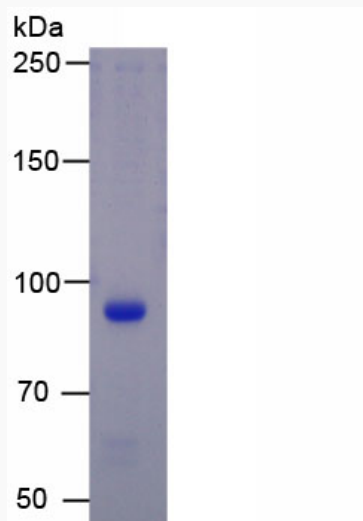
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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b>   | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                            |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | IBSP integrin-binding sialoprotein [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | IBSP                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | IBSP; integrin-binding sialoprotein; bone sialoprotein 2; bone sialoprotein; bone sialoprotein II; BSP; BSP II; SP II; cell-binding sialoprotein; BNSP; SP-II; BSP-II                                                                                                                                                                        |
| <b>Gene ID</b>          | 3381                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>      | NM_004967                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_004958                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>              | 147563                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>       | P21815                                                                                                                                                                                                                                                                                                                                       |

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