

# Active Recombinant Human Integrin-binding Sialoprotein, His-tagged

**Cat. No.** IBSP-2711H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Bone Sialoprotein (Phe17Gln317) fused a His-tag at C-terminal was expressed in CHO cells.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	Bone sialoprotein (BSP) is a component of mineralized tissues such as bone, dentin, cementum and calcified cartilage. BSP is a significant component of the bone extracellular matrix and has been suggested to constitute approximately 8% of all non-collagenous proteins found in bone and cementum.
<b>Predicted NTerminal</b>	Phe17
<b>SDS-PAGE</b>	7590 kDa, reducing conditions
<b>Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of the MCF-7 human breast cancer cells. When 5 x10 <sup>4</sup> cells/well are added to recombinant human IBSP- coated plates (3 µg/mL with 100 µL/well), approximately 60-80% will adhere after 30 minutes at 37°C.
<b>Endotoxin</b>	Less than 1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in MES and NaCl. See Certificate of Analysis for details.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS.
<b>Storage</b>	12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">IBSP integrin-binding sialoprotein [ Homo sapiens ]</a>
<b>Official Symbol</b>	IBSP
<b>Synonyms</b>	integrin-binding sialoprotein; BSP; BNSP; SP-II; BSP-II; IBSP; bone sialoprotein 2; BSP II; bone sialoprotein II; cell-binding sialoprotein; Cell-binding sialoprotein; Bone sialoprotein II
<b>Gene ID</b>	<a href="#">3381</a>
<b>mRNA Refseq</b>	<a href="#">NM_004967</a>
<b>Protein Refseq</b>	<a href="#">NP_004958</a>
<b>MIM</b>	<a href="#">147563</a>
<b>UniProt ID</b>	<a href="#">P21815</a>
<b>Chromosome Location</b>	4q21-q25

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**Pathway**

ECM-receptor interaction; Focal adhesion; Integrin cell surface interactions

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