

## Recombinant Human IBSP Protein, His-tagged

Cat. No. IBSP-11H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	<p>IBSP produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 309 amino acids (17-317aa) and having a molecular mass of 34.5 kDa (Migrates at 70-100 kDa on SDS-PAGE under reducing conditions).</p> <p>IBSP is expressed with a 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.</p>
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	17-317
<b>Description</b>	<p>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 extraskelatal 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.</p>
<b>Form</b>	Sterile Filtered colorless solution
<b>Molecular Mass</b>	34.5kDa
<b>AA Sequence</b>	FSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPVQGSSDSSEENGD

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DSSEEEEEEEETSNEGENNEESNEDEDESEAENTTLSATTGLYGEDATPGTGYTGLA  
 AIQLPKKAGDITNKATKEKESDEEEEEEEEGNENESEAEVDENEQGINGTSTNSTE  
 AENGNSSGGDNGEEGEEESVTGANAEDTTETGRQKGKGTSTTTSPNGGFPTTP  
 PQVYRTTSPPFKTTTTVEYEGEYETGANEYDNGYEIYSENGEPRGDNYRAYEDE  
 YSYFKGQGYDGYDGQNYHHQLEHHHHHH.

**Purity** > 90% SDS-PAGE

**Usage** Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Storage** Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time.  
 For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
 Avoid multiple freeze-thaw cycles.

**Concentration** 0.5 mg/mL

**Storage Buffer** Phosphate Buffered Saline (pH 7.4), 10% glycerol and 0.1mM PMSF.

**Shipping** Shipped with Ice Packs

## GENE INFORMATION

**Gene Name** [IBSP integrin binding sialoprotein \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [IBSP](#)

**Synonyms** IBSP; integrin binding sialoprotein; BSP; BNSP; SP-II; BSP-II; bone sialoprotein 2; BSP II; bone sialoprotein II; cell-binding sialoprotein

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Gene ID	3381
mRNA Refseq	NM_004967
Protein Refseq	NP_004958
MIM	147563
UniProt ID	P21815

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