

Recombinant Human IBSP Protein, His-tagged

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

SPECIFICATION

Product Overview	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). IBSP is expressed with a 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	Insect Cells
ProteinLength	17-317
Description	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.
Form	Sterile Filtered colorless solution
Molecular Mass	34.5kDa
AA Sequence	FSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPVQGSSDSSEENGD

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DSSEEEEEEEETSNEGENNEESNEDEDSEAENTTLSATTGLGYGEDATPGTGYTGLA
 AIQLPKKAGDITNKATKEKESDEEEEEEEEGNENEESEAEDVDENEQINGTSTNSTE
 AENGNGSSGGDNGEEGEEESVTGANAEDTTETGRQGKGTSKTTTSPNGGFEPPTP
 PQVYRTTSPPFGKTTTVEYEGEYEYTGANEYDNGYEIYESENGEPRGDNYRAYEDE
 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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