

## Product datasheet for **TP700289**

### Bone Sialoprotein (IBSP) (NM\_004967) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of human integrin-binding sialoprotein (IBSP), with C-terminal DDK/His tag, expressed in human cells;
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC222901, encoding the region (Phe17 – Gln317) of human IBSP
Tag:	C-DDK/6xHis
Predicted MW:	35.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_004958</a>
Locus ID:	3381
UniProt ID:	<a href="#">P21815</a>
RefSeq Size:	1108
Cytogenetics:	4q22.1
RefSeq ORF:	951
Synonyms:	BNSP; BSP; BSP-II; SP-II


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**Summary:**

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. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

ECM-receptor interaction, Focal adhesion

**Product images:**
