

Recombinant Human IBSP Protein, His&SUMO-tagged

Cat. No. IBSP-377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IBSP Protein (Phe17-Gln317) with N-His&SUMO tag was expressed in 293F.
Species	Human
Source	HEK293
ProteinLength	Phe17-Gln317
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 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.6 kDa Accurate Molecular Mass: 90 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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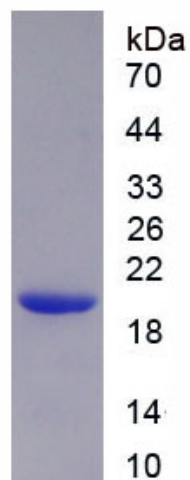
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed.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

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