

Active Recombinant Human IBSP Protein, His-tagged

Cat. No. IBSP-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IBSP Protein, fused to His-tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	17-317aa
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	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of MCF7 human breast cancer cells. When cells are added to Human IBSP coated plates 3 ug/ml. This effect is more to 40%.
Molecular Mass	34.3 kDa
AA Sequence	FSMKNLHRRV KIEDSEENGV FKYRPRYYLY KHAYFYPHLK RFPVQGSSDS

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SEENGDDSS EEEEEETS EGENNEES DEDSEAENTT LSATTLGYGE
 DATPGTGYTG LAAIQLPKKA GDITNKATKE KESDEEEEEEE EGNENESE
 AEVDENEQGI NGTSTNSTEA ENGNSSGGD NGEEGEEESV TGANAEDTTE
 TGRQGKGTSK TTTSPNGGFE PTTTPQVYRT TSPPFGKTTT VEYEGEYET
 GANEYDNGYE IYSENGEPR GDNRYAYEDE YSYFKGQGYD GYDGQNYHH Q

Endotoxin < 1 EU per 1ug of protein (determined by LAL method).

Purity > 90% by SDS-PAGE

Applications SDS-PAGE, Bioactivity

Notes For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Storage Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm).

GENE INFORMATION

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

Official Symbol IBSP

Synonyms BSP; BNSP; SP-II; BSP-II

Gene ID 3381

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mRNA Refseq	NM_004967.4
Protein Refseq	NP_004958.2
MIM	147563
UniProt ID	P21815
SDS-PAGE	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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