

Active Recombinant Human Integrin-binding Sialoprotein, His-tagged

Cat. No. IBSP-2711H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Bone Sialoprotein (Phe17Gln317) fused a His-tag at C-terminal was expressed in CHO cells.
Species	Human
Source	CHO
Description	Bone sialoprotein (BSP) is a component of mineralized tissues such as bone, dentin, cementum and calcified cartilage. BSP is a significant component of the bone extracellular matrix and has been suggested to constitute approximately 8% of all non-collagenous proteins found in bone and cementum.
Predicted NTerminal	Phe17
SDS-PAGE	7590 kDa, reducing conditions
Activity	Measured by the ability of the immobilized protein to support the adhesion of the MCF-7 human breast cancer cells. When 5 x10 ⁴ cells/well are added to recombinant human IBSP- coated plates (3 µg/mL with 100 µL/well), approximately 60-80% will adhere after 30 minutes at 37°C.
Endotoxin	Less than 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	Lyophilized from a 0.2 µm filtered solution in MES and NaCl. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IBSP integrin-binding sialoprotein [Homo sapiens]
Official Symbol	IBSP
Synonyms	integrin-binding sialoprotein; BSP; BNSP; SP-II; BSP-II; IBSP; bone sialoprotein 2; BSP II; bone sialoprotein II; cell-binding sialoprotein; Cell-binding sialoprotein; Bone sialoprotein II
Gene ID	3381
mRNA Refseq	NM_004967
Protein Refseq	NP_004958
MIM	147563
UniProt ID	P21815
Chromosome Location	4q21-q25

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Pathway

ECM-receptor interaction; Focal adhesion; Integrin cell surface interactions

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