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## Recombinant human IBSP/Sialoprotein II protein

Catalog Number: ATGP3388

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

17-317aa

#### UniProt No.

P21815

#### **NCBI Accession No.**

NP 004958

#### **Alternative Names**

Bone sialoprotein II, BSP II, Cell-binding sialoprotein, Integrin-binding sialoprotein, BNSP, SP-II, BSP

## PRODUCT SPECIFICATION

#### **Molecular Weight**

34.5 kDa (309aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 0.1mM PMSF.

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

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

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

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

### **BACKGROUND**

#### **Description**

IBSP, also known as bone sialoprotein 2, is a monomeric noncollagenous member of the SIBLING family of extracellular matrix (ECM) proteins. It is synthesized by platelets, osteoblasts, osteocytes, odontoblasts, osteoclasts, and bone marrow stromal cells. It is a key mediator of the hypertrophic chondrocytes-induced angiogenesis. It was associated with the severity of histological cartilage lesions and with vascular density at the



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osteochondral junction. Recombinant human IBSP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

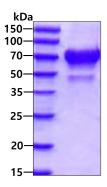
FSMKNLHRRV KIEDSEENGV FKYRPRYYLY KHAYFYPHLK RFPVQGSSDS SEENGDDSSE EEEEEEETSN EGENNEESNE DEDSEAENTT LSATTLGYGE DATPGTGYTG LAAIQLPKKA GDITNKATKE KESDEEEEE EEGNENEESE AEVDENEQGI NGTSTNSTEA ENGNGSSGGD NGEEGEEESV TGANAEDTTE TGRQGKGTSK TTTSPNGGFE PTTPPQVYRT TSPPFGKTTT VEYEGEYEYT GANEYDNGYE IYESENGEPR GDNYRAYEDE YSYFKGQGYD GYDGONYYHH Q<LEHHHHHH>

### **General References**

Pesesse L., et al. (2014) Osteoarthritis Cartilage. 22:547-556. Kruger TE., et al. (2014) Crit Rev Oncol Hematol. 89:330-341.

## **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

