

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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osteocondral 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 RFPVQSSDS SEENGDDSS EEEEEETS EGENNEESNE
DEDSEAENTT LSATTLGYGE DATPGTGYTG LAAILPKKA GDITNKATKE KESDEEEEEEE EGNENESE AEVDENEQGI
NGTSTNSTEA ENGNSSGGD NGEEGEEESV TGANAEDTTE TGRQKGTSK TTTSPNGGFE PTTTPQVYRT TSPFGKTTT
VEYEGEYET GANEYDNGYE IYSENGEPR GDNRYAYEDE YSYFKGQGYD GYDGNYYHH Q<LEHHHHHH>

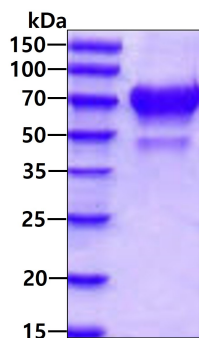
General References

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.