

IBSP, 17-317aa, Human, His tag, Baculovirus

Cat.NO.: TP02546

3th Edition

Synonyms:Bone sialoprotein 2, IBSP, BNSP, BSP, BSP-II, SP-II, Bone sialoprotein 2, Bone sialoprotein II, BSP, BSP II, BSPII, Cell binding sialoprotein.

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

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol, 0.1mM PMSF.

Molecular Weight:34.5kDa (309aa), 70-100kDa (SDS-PAGE under reducing conditions)

Sequences:

FSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPVQGSSDSSEENGDDSSSEEEEEEEETSNEGENN
EESNEDEDSEAENTTSLATTLGYGEDATPGTGYTGLAAIQLPKKAGDITNKATKEKESDEEEEEEEGNENEESEA
EVDENEQGINGTSTNSTEAENGNGSSGGDNGEEGEEESVTGANAEDTTETGRQKGKTSKTTTSPNGGFEPTTPP
QVYRTTSPPFKTTTVEYEGEYETGANEDNGYEIYESENGEPRGDNYRAYEDEYSYFKGQGYDGYDGQNYH
HQLHHHHHHH

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.