
Product Data Sheet

Product Name: IBSP Human
 Cat. No.: GP23682
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Integrin Binding Sialoprotein; Integrin-Binding Sialoprotein; Bone Sialoprotein II; Cell-Binding Sialoprotein; BSP II ; BNSP; Bone Sialoprotein; BSP-II; SP-II; BSP.		
Amino Acid Sequence	FSMKNLHRRV KIEDSEENG VFKYRPRYYLY KHAYFYPHLK RFPVQGSSDSSEENGDDSS EEEEEETS N EGENNEESNE DEDSEAENTT LSATTLGYGE DATPGTGYTG LAAIQLPKKAGDITNKATKE KESDEEEEE EEGNENESE AEVDENEQGI NGTSTNSTEA ENGNSSGGD NGEEGEEESVTGANAEDTTE TGRQKGTSK TTTSPNGGFE PTPPPQVYRT TSPFFGKTTT VEYEGEYET GANEYDNGYEIYSENGEPR GDNYRAYEDE YSYFKGGYD GYDGQNYHH QLEHHHHH.		
Formulation	IBSP protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4), 10% glycerol and 0.1mM PMSF.		

Introduction

Integrin Binding Sialoprotein (IBSP) is a monomeric noncollagenous protein which belongs to the SIBLING family of extracellular matrix (ECM) proteins. IBSP is synthesized by platelets, odontoblasts, osteocytes, osteoblasts, osteoclasts, and bone marrow stromal cells. IBSP forms an integral part of the mineralized matrix and also plays a role as the main mediator of the hypertrophic chondrocytes-induced angiogenesis. IBSP which binds firmly to hydroxyapatite is related to the severity of histological cartilage lesions.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

IBSP produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 309 amino acids (17-317aa) and having a molecular mass of 34.5kDa (Migrates at 70-100kDa on SDS-PAGE under reducing conditions).

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