Recombinant Human Bone sialoprotein 2 (IBSP), partial

Product Code	CSB-MP010945HU(A4)
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P21815
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	AIQLPKKAGDITNKATKEKESDEEEEEEEEGNENEESEAEVDENEQGINGTST NSTEAENGNGSSGGDNGEEGEEESVTGANAEDTTETGRQGKGTSKTTTSPN GGFEPTTPPQVYRTTSPPFGKTTTVEYEGEYEYTGANEYDNGYEIYESE
Source	Mammalian cell
Target Names	IBSP
Protein Names	Recommended name: Bone sialoprotein 2Alternative name(s): Bone sialoprotein II Short name= BSP II Cell-binding sialoprotein Integrin-binding sialoprotein
Expression Region	129-281aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	partial
Target Details	This protein is a major structural protein of the bone matrix. It constitutes approximately 12% of the noncollagenous proteins in human bone and is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts. The only extraskeletal site of its synthesis is the trophoblast. This protein binds to calcium and hydroxyapatite via its acidic amino acid clusters, and mediates cell attachment through an RGD sequence that recognizes the vitronectin receptor.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.