



# Recombinant Rat Bone sialoprotein 2 (lbsp)

<b>Product Code</b>	CSB-BP010945RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P13839
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	FSMK NFHRIKAED SEENGVFKYR PRYFLYKHAT YFYPLKRFP VQGGSDSSEE NGDGDSSEEE GEEETSNEE ENNEDSEGNE DQEAENAT LSGVTASYGV ETTADAGKLE LAALQLPKKA GDAEGKAPKM KESDEEEEE EEEENENEEA EVDENEQVVN GTSTNSTEVD GGNGPSGGDN GEEAEEASVT EAGAEGTTAG VRELTSYGTT TAVLLNGFQQ TTPPEAYGT TSPARKSST VEYGEEYEQI GNEYNTAYET YDENNGEPRG DTYRAYEDEY SYYKGGHYEG YEGQDYYYHQ
<b>Source</b>	Baculovirus
<b>Target Names</b>	lbsp
<b>Protein Names</b>	Recommended name: Bone sialoprotein 2 Alternative name(s): Bone sialoprotein II Short name= BSP II Cell-binding sialoprotein Integrin-binding sialoprotein
<b>Expression Region</b>	17-320
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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 extraskelatal 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.
<b>Reconstitution</b>	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.
<b>Shelf Life</b>	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.