

Product datasheet for **TP727055**

Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Bone Sialoprotein 2/IBSP (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Phe17-Gln324
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Bone Sialoprotein 2 is produced by our Mammalian expression system and the target gene encoding Phe17-Gln324 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Synonyms:	BNSP; Bone sialoprotein 2; Bone sialoprotein; BSP; BSP2; BSPII; Cell binding sialoprotein; IBSP; Integrin binding sialoprotein; SP II
Summary:	Bone sialoprotein 2 (IBSP) is a monomeric non-collagenous member of the SIBLING family of extracellular matrix proteins. It is principally associated with the early stages of bone mineralization. Mouse IBSP is synthesized as a 324 amino acid (aa) precursor that contains a 16 aa signal sequence and a 308 aa mature region. The mature segment is divided into a basic N-terminus (aa 17 - 62), a central region (aa 63 - 233), and an acidic C-terminus (aa 234 - 317). IBSP is highly glycosylated, sulfated and phosphorylated. Phosphorylation promotes HAp nucleation, while carbohydrate may regulate cell adhesion. IBSP binds tightly to hydroxyapatite, appears to form an integral part of the mineralized matrix. It is probably important to cell-matrix interaction and promotes Arg-Gly-Asp-dependent cell attachment.



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