

Bone Sialoprotein (BSP) Recombinant Protein | BSP recombinant protein

Recombinant Bone Sialoprotein (BSP)

CATALOG # AAA148350	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
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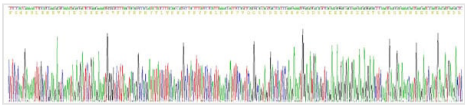
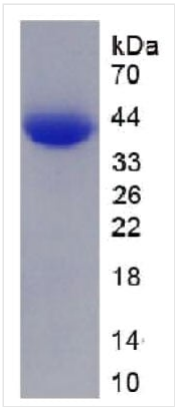
PRODUCT SYNONYMS

Bone Sialoprotein (BSP); Recombinant Bone Sialoprotein (BSP); IBSP; Bsp; BspII; SpII; Integrin-Binding Bone Sialoprotein; Cell-binding sialoprotein; Bone sialoprotein 2; BSP recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% Sarcosyl, 5%Trehalose.
Concentration	Original Concentration: 50ug/mL (varies by lot)
Applicable Applications for BSP recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Gln174~Gln317
Tags	Two N-terminal Tags, His-tag and SUMO-tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	3.8
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.3 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

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QGINGTS  TNSTEAENG  GSSGGDNCEE
GEEESVTGAN  AEDTTETGRQ  GKGTSKTTTS  PNGGFPTTP  PQVYRTTSPP
FGKTTTVEYE  GEVEYTGANE  YDNGVEIYES  ENGEPRGDNY  RAYEDEYSYF
KGQGYDGYDG  QNYVYHQ
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Sequence

ADDITIONAL INFORMATION

Product Categories/Family for BSP recombinant protein	Metabolic pathway; Developmental science; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	167466187
NCBI GeneID	3381
NCBI Accession #	NP_004958.2
NCBI GenBank Nucleotide #	NM_004967.3
UniProt Accession #	P21815
Molecular Weight	Predicted Molecular Mass: 29.4kDa Accurate Molecular Mass: 43kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	bone sialoprotein 2
NCBI Official Synonym Full Names	integrin binding sialoprotein
NCBI Official Symbol	IBSP
NCBI Official Synonym Symbols	BSP; BNSP; SP-II; BSP-II
NCBI Protein Information	bone sialoprotein 2
UniProt Protein Name	Bone sialoprotein 2
UniProt Gene Name	IBSP
UniProt Synonym Gene Names	BNSP; BSP II

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.