

## Bone Sialoprotein (BSP) Protein | BSP protein

Eukaryotic Bone Sialoprotein (BSP)

|                               |                           |                                               |
|-------------------------------|---------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA150607</b> | HOST<br><b>293F cells</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|---------------------------|-----------------------------------------------|

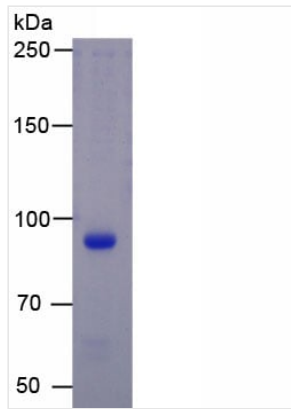
### PRODUCT SYNONYMS

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

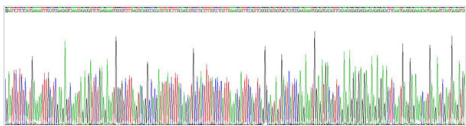
### PRODUCT SPECIFICATIONS

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                    | 293F cells                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity/Purification                     | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                             | Freeze-dried powder<br>PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                                | Phe17~Gln3 17                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for BSP protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source                                  | Eukaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Species                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag                                     | Two N-terminal Tags, His-tag and SUMO-tag                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Endotoxin                               | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Isoelectric Point                       | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Subcellular Location                    | Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage                                   | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                 | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>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



SDS-PAGE  
Figure. SDS-PAGE



Gene Sequence  
Figure. Gene Sequencing (extract)

```

      FSMK  NLHRRVKIED  SEENGVFKYR  PRYLYKHAY
FYPHLKRFPV  QGSSDSSEEN  GDSSEEEEE  EEETSNEGEN  NEESNEDEDS
EAENTTLSAT  TLGYGEDATP  GTGYTGLAAI  QLPKKAGDIT  NKATKEKESD
EEEEEEEEEGN  ENEESEAEVD  ENEQGINGTS  TNSTEAENG  GSSGGDNGEE
GEEESVTGAN  AEDTTETGRQ  KGTSKTTTS  PNGGFETTP  PQVYRTTSP
FGKTTTVEYE  GEYETGANE  YDNGYEIYES  ENGEPRGDNY  RAYEDEVSYF
KGQGYDGYDG  QNYYYHQ

```

Sequence

ADDITIONAL INFORMATION

|                                           |                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------|
| Product Categories/Family for BSP protein | Metabolic pathway; Developmental science; Bone metabolism; Eukaryotic proteins/EP |
|-------------------------------------------|-----------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Molecular Weight | Predicted Molecular Mass: 46.6kDa<br>Accurate Molecular Mass: 90kDa |
|------------------|---------------------------------------------------------------------|

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/293f-protein/bone-sialoprotein-bsp/150607>