

## BSP2 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700666
Synonyms:	BNSP; BSP 2; BSP II; BSP; BSP-II; IBSP; SP II; SPII; SP-II
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5UM27 (F17-Q318)
Gene ID:	102135688
Molecular Weight:	60-80 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	BSP2 protein demonstrates robust binding affinity to hydroxyapatite, suggesting its integral role in the composition of the mineralized matrix. Its association with hydroxyapatite implies that BSP2 likely plays a crucial part in cell-matrix interactions, contributing to the structural framework of tissues. Additionally, BSP2 protein is implicated in promoting Arg-Gly-Asp (RGD)-dependent cell attachment, highlighting its involvement in mediating cellular adhesion processes. The tight binding to hydroxyapatite and its presumed integration into the mineralized matrix underscore the significance of BSP2 in influencing both the physical and functional aspects of cell-matrix dynamics.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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