

BSP2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7674
Synonyms:	rMuBSP2, His; IBSP; Integrin binding sialoprotein; Bone sialoprotein 2
Species:	Mouse
Source:	HEK293
Accession:	AAA21726.1 (F17-Q324)
Gene ID:	15891
Molecular Weight:	60-90 kDa

PROPERTIES

AA Sequence	<pre> F S M K N F H R R I K A E D S E E N G V F K Y R P R Y F L Y K H A Y F Y P P L K R F P V Q G G S D S S E E N G D G D S S E E E G E E E E T S N E E E N N E D S E G N E D Q E A E A E N A T L S T L S G V T A S Y G A E T T P Q A Q T F E L A A L Q L P K K A G D A E S R A P K V K E S D E E E E E E E E E E E N E N E E A E V D E N E L A V N G T S T N S T E V D G G N G S S G G D N G E E A E A E E A S V T E A G A E G T T G G R E L T S V G T Q T A V L L N G F Q Q T T P P P E A Y G T T S P P I R K S S T V E Y G G E Y E Q T G N E Y N N E Y E V Y D N E N G E P R G D T Y R A Y E D E Y S Y Y K G H G Y E G Y E G Q N Y Y Y H Q H H H H H H </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Bone Sialoprotein (BSP) is a member of the "Small Integrin-Binding Ligand N-linked Glycoproteins" (SIBLING) extracellular matrix protein family of mineralized tissues. BSP has been less studied than other SIBLING proteins such as Osteopontin (OPN), which is coexpressed with it in several skeletal cell types ^[2] .
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REFERENCES

[1]. Im BJ, et al. Promotion of osteoblastic differentiation and osteogenic transcription factor expression on a microgroove titanium surface with immobilized fibronectin or bone sialoprotein II. *Biomed Mater.* 2016;11(3):035020. Published 2016 Jun 21.

[2]. Boulefour W, et al. The role of the SIBLING, Bone Sialoprotein in skeletal biology - Contribution of mouse experimental genetics. *Matrix Biol.* 2016;52-54:60-77.

Caution: Product has not been fully validated for medical applications. For research use only.

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