

IBSP Protein, Human (His-SUMO)

Cat. No.:	HY-P72241
Synonyms:	BNSP; Bone sialoprotein 2; Bone sialoprotein II; BSP; BSP II; BSPII; Cell binding sialoprotein; Cell-binding sialoprotein; IBSP; Integrin binding sialoprotein; Integrin-binding sialoprotein; SIAL_HUMAN; SPII
Species:	Human
Source:	E. coli
Accession:	P21815 (A129-E281)
Gene ID:	3381
Molecular Weight:	Approximately 32.4 kDa

PROPERTIES

AA Sequence	<pre> A I Q L P K K A G D I T N K A T K E K E S D E E E E E E E E G N E N E E S E A E V D E N E Q G I N G T S T N S T E A E N G N G S S G G D N G E E G E E E S V T G A N A E D T T E T G R Q G K G T S K T T T S P N G G F E P T T P P Q V Y R T T S P P F G K T T T V E Y E G E Y E Y T G A N E Y D N G Y E I Y E S E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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.
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	<p>IBSP protein exhibits strong binding affinity to hydroxyapatite, suggesting a crucial role in the formation of the mineralized matrix. It is likely to be an integral component of this matrix, implying its significance in cell-matrix interactions. Notably, IBSP protein plays a key role in promoting Arg-Gly-Asp (RGD)-dependent cell attachment, emphasizing its involvement in cellular adhesion processes. The observed tight binding to hydroxyapatite and its apparent integration into the mineralized matrix underscore the importance of IBSP in contributing to the structural and functional aspects of cell-matrix interactions within biological systems.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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