

## DSPG3/Epiphycan Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76323
<b>Synonyms:</b>	Dermatan sulfate proteoglycan 3; Proteoglycan-Lb; EPYC; PGLB; SLRR3B
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q99645 (A20-V322)
<b>Gene ID:</b>	1833
<b>Molecular Weight:</b>	Approximately 43-52 kDa.

### PROPERTIES

<b>AA Sequence</b>	<pre> A P T L E S I N Y D   S E T Y D A T L E D   L D N L Y N Y E N I   P V D K V E I E I A T V M P S G N R E L   L T P P P Q P E K A   Q E E E E E E E S T   P R L I D G S S P Q E P E F T G V L G P   H T N E D F P T C L   L C T C I S T T V Y   C D D H E L D A I P P L P K N T A Y F Y   S R F N R I K K I N   K N D F A S L S D L   K R I D L T S N L I S E I D E D A F R K   L P Q L R E L V L R   D N K I R Q L P E L   P T T L T F I D I S N N R L G R K G I K   Q E A F K D M Y D L   H H L Y L T D N N L   D H I P L P L P E N L R A L H L Q N N N   I L E M H E D T F C   N V K N L T Y I R K   A L E D I R L D G N P I N L S K T P Q A   Y M C L P R L P V G   S L V           </pre>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The DSPG3/Epiphycan protein appears to play a crucial role in both bone formation and the establishment of the ordered structure of cartilage by contributing to matrix organization. Its involvement suggests a multifaceted function in skeletal development, potentially influencing the dynamic processes associated with bone formation and the structural integrity of cartilage. The protein's dual impact on these essential aspects underscores its significance in maintaining the integrity and
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organization of the extracellular matrix in skeletal tissues.

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

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