

## FRZB Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P75780
<b>Synonyms:</b>	Secreted frizzled-related protein 3; sFRP-3; Frezzled; FrzB-1; FRZB; SFRP3
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q92765 (A32-N325)
<b>Gene ID:</b>	2487
<b>Molecular Weight:</b>	Approximately 41 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> A A A C E P V R I P   L C K S L P W N M T   K M P N H L H H S T   Q A N A I L A I E Q F E G L L G T H C S   P D L L F F L C A M   Y A P I C T I D F Q   H E P I K P C K S V C E R A R Q G C E P   I L I K Y R H S W P   E N L A C E E L P V   Y D R G V C I S P E A I V T A D G A D F   P M D S S N G N C R   G A S S E R C K C K   P I R A T Q K T Y F R N N Y N Y V I R A   K V K E I K T K C H   D V T A V V E V K E   I L K S S L V N I P R D T V N L Y T S S   G C L C P P L N V N   E E Y I I M G Y E D   E E R S R L L L V E G S I A E K W K D R   L G K K V K R W D M   K L R H L G L S K S   D S S N S D S T Q S Q K S G R N S N P R   Q A R N           </pre>
<b>Biological Activity</b>	Measured by its ability to inhibit proliferation of HeLa human cervical epithelial carcinoma cells. The ED <sub>50</sub> for this effect is 0.359 µg/mL, corresponding to a specific activity is 2.786×10 <sup>3</sup> units/mg.
<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>	FRZB, a soluble frizzled-related protein (sFRP), assumes a pivotal role in modulating Wnt signaling through its direct
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interaction with Wnts, contributing to the regulation of cell growth and differentiation in specific cell types. Particularly, FRZB, also known as SFRP3, plays a crucial part in limb skeletogenesis, functioning as an antagonist of Wnt8 signaling. Its regulatory influence extends to the precise orchestration of chondrocyte maturation and long bone development. In addition to its involvement in Wnt signaling modulation, FRZB engages in molecular interactions, exemplified by its interaction with MYOC, thereby highlighting its diverse functions and importance in cellular processes. The multifaceted regulatory role of FRZB underscores its significance in the intricate landscape of Wnt-mediated pathways and skeletogenesis.

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

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