

## SFRP2 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P74553
<b>Synonyms:</b>	Secreted frizzled-related protein 2; FRP-2; SARP-1; FKSG12
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_033170.1 (L25-C295)
<b>Gene ID:</b>	20319
<b>Molecular Weight:</b>	Approximately 31-36 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L F L F G Q P D F S   Y K R S N C K P I P   A N L Q L C H G I E   Y Q N M R L P N L L G H E T M K E V L E   Q A G A W I P L V M   K Q C H P D T K K F   L C S L F A P V C L D D L D E T I Q P C   H S L C V Q V K D R   C A P V M S A F G F   P W P D M L E C D R F P Q D N D L C I P   L A S S D H L L P A   T E E A P K V C E A   C K T K N E D D N D I M E T L C K N D F   A L K I K V K E I T   Y I N R D T K I I L   E T K S K T I Y K L N G V S E R D L K K   S V L W L K D S L Q   C T C E E M N D I N   A P Y L V M G Q K Q G G E L V I T S V K   R W Q K G Q R E F K   R I S R S I R K L Q   C </pre>
<b>Biological Activity</b>	Measured by its ability to compete with Frizzled-1 for binding to biotinylated Wnt-3a. The IC <sub>50</sub> value is 1.48 nM, under conditions in which Recombinant Mouse (rm) Frizzled-1 is present at 2.1 nM, and biotinylated rmWnt-3a concentration is 2.7 nM.
<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>	SFRP2 protein exhibits diverse functions, including Wnt-protein binding activity, endopeptidase activator activity, and
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receptor ligand activity. It plays a crucial role in regulating gene expression, protein phosphorylation, and signal transduction. Operating upstream of various processes such as animal organ development, negative regulation of signal transduction, and the regulation of endopeptidase activity, SFRP2 is located in the extracellular space. The expression of SFRP2 spans multiple structures, including the alimentary system, brain, embryo mesenchyme, eye, and genitourinary system. The biased expression in specific tissues, such as the limb at embryonic day 14.5 and the adult mammary gland, suggests its involvement in tissue-specific developmental and regulatory processes.

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

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