

SFRP2 Protein, Mouse (HEK293, His)

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

PROPERTIES

AA Sequence	<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>
Biological Activity	Measured by its ability to compete with Frizzled-1 for binding to biotinylated Wnt-3a. The IC ₅₀ 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.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 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	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.

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

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