

SFRP1 Protein, Mouse (CHO, His)

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| Cat. No.: | HY-P73413 |
| Synonyms: | FRP1; FrzA; SARP-2; secreted frizzled-related protein 1; sFRP1 |
| Species: | Mouse |
| Source: | CHO |
| Accession: | AAC53145.1 (S32-K314) |
| Gene ID: | 20377 |
| Molecular Weight: | Approximately 32.6 kDa |

PROPERTIES

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| AA Sequence | <pre> S E Y D Y V S F Q S D I G S Y Q S G R F Y T K P P Q C V D I P V D L R L C H N V G Y K K M V L P N L L E H E T M A E V K Q Q A S S W V P L L N K N C H M G T Q V F L C S L F A P V C L D R P I Y P C R W L C E A V R D S C E P V M Q F F G F Y W P E M L K C D K F P E G D V C I A M T P P N T T E A S K P Q G T T V C P P C D N E L K S E A I I E H L C A S E F A L R M K I K E V K K E N G D K K I V P K K K K P L K L G P I K K K E L K A L V L F L K N G A D C P C H Q L D N L S H N F L I M G R K V K S Q Y L L T A I H K W D K K N K E F K N F M K R M K N H E C P T F Q S V F K </pre> |
| Biological Activity | Measured by its ability to inhibit Topflash reporter activity in HEK293T human embryonic kidney cells. The ED ₅₀ for this effect is typically 0.4-2 µg/mL in the presence of 300 ng/mL of Recombinant Mouse Wnt-3a. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| 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

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| Background | SFRP1 protein is an inhibitor of Wnt signaling, which can inhibit WNT1/WNT4-mediated TCF-dependent transcription. SFRP1 |
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protein can reduce intracellular beta-catenin levels. SFRP1 Protein has anti-proliferative effects on vascular cells in vitro and in vivo, and can induce angiogenesis in vivo. In the vascular cell cycle, SFRP1 Protein delays the G1 phase and enters the S phase. In kidney development, SFRP1 Protein inhibits the formation of posterior renal tubules and the growth of buds. SFRP1 Protein plays a key role in maintaining the function of hematopoietic stem cells (HSC). SFRP1 Protein is a multifunctional regulator of intercellular communication, and can be used as a potential target for treating chronic inflammation in neurodegenerative diseases^{[1][2]}

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

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