

SOST Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70717
Synonyms:	Sclerostin; Sost
Species:	Mouse
Source:	HEK293
Accession:	AAK13455.1 (Q24-Y211)
Gene ID:	74499
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	<p> QGWQAFRND A T E V I P G L G E Y P E P P P E N N Q T M N R A E N G G R P P H H P Y D A K D V S E Y S C R E L H Y T R F L T D G P C R S A K P V T E L V C S G Q C G P A R L L P N A I G R V K W W R P N G P D F R C I P D R Y R A Q R V Q L L C P G G A A P R S R K V R L V A S C K C K R L T R F H N Q S E L K D F G P E T A R P Q K G R K P R P G A R G A K A N Q A E L E N A Y </p>
Biological Activity	<p>Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED₅₀ for this effect is 1.080 µg/mL in the presence of 20 ng/mL Recombinant Human Wnt-3a, corresponding to a specific activity is 925.9259 units/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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	<p>SOST protein serves as a potent negative regulator of bone growth by effectively inhibiting Wnt signaling and subsequent bone formation. Through interactions with key components of the Wnt pathway, including LRP4, LRP5, and LRP6, SOST exerts its inhibitory influence. Notably, its interaction with LRP4, mediated via the extracellular domain, facilitates the</p>
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suppression of Wnt signaling, while interactions with LRP5, specifically through the first two YWTD-EGF repeat domains, contribute to the inhibition of Wnt-mediated signaling. These molecular interactions underscore the crucial role of SOST in modulating the intricate signaling cascades that govern bone development, providing essential regulatory mechanisms to maintain bone homeostasis.

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

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