

SOST Protein, Human (HEK293, His)

Cat. No.:	HY-P70756
Synonyms:	Sclerostin; SOST; UNQ2976; PRO7455; PRO7476
Species:	Human
Source:	HEK293
Accession:	Q9BQB4 (Q24-Y213)
Gene ID:	50964
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	<p> Q G W Q A F K N D A T E I I P E L G E Y P E P P P E L E N N K T M N R A E N G G R P P H H P F E T K D V S E Y S C R E L H F T R Y V 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 G K W W R P S G P D F R C I P D R Y R A Q R V Q L L C P G G E A P R A 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 T E A A R P Q K G R K P R P R A R S A K A N Q A E L E N A Y </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 250 mM NaCl, pH 8.0.
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 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.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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