SOST Protein, Human (Biotinylated, HEK293, His, Avi)

Cat. No.:	HY-P78804
Synonyms:	SOST; VBCH
Species:	Human
Source:	HEK293
Accession:	Q9BQB4 (Q24-Y213)
Gene ID:	50964
Molecular Weight:	Monomer:33 kDa; Dimer:66 kDa

PROPERTIES

Biological Activity	Immobilized Human LRP-6 mFc at 5 μg/mL (100 μL/well) can bind Biotinylated Human SOST His with a linear range of 0.005-2.089 μg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 μm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	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.

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