Recombinant Human Sclerostin/SOST protein (His Tag)

Catalog Number: PDMH100124

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Species	Human
Source	HEK293 Cells-derived Human Sclerostin/SOST protein Met1-Tyr213, with an C-
	terminal His
Calculated MW	23.3 kDa
Observed MW	35 kDa
Accession	Q9BQB4
Bio-activity	Not validated for activity
Properties	
Purity	>95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 °C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with 5% Trehalose and 5%
	Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of
	0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Sclerostin, also known as SOST, is a member of the Cerberus/DAN family of BMP antagonists. SOST is asecreted glycoprotein with a C-terminal cysteine knot-like (CTCK) domain. It shows sequence similarity to the DAN (differential screening-selected gene aberrative in neuroblastoma) family of bone morphogenetic protein (BMP) antagonists. SOST is produced by the osteocyte and has anti-anabolic effects on bone formation. It is a negative regulator of bone growth that acts through inhibition of Wnt signaling and bone formation.