Datasheet for ABIN7596446

Sclerostin Protein (SOST) (AA 24-213) (His tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Sclerostin (SOST)
Protein Characteristics:	AA 24-213
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sclerostin protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	QGWQAF KNDATEIIPE LGEYPEPPPE LENNKTMNRA ENGGRPPHHP FETKDVSEYS CRELHFTRYV TDGPCRSAKP VTELVCSGQC GPARLLPNAI GRGKWWRPSG PDFRCIPDRY RAQRVQLLCP GGEAPRARKV RLVASCKCKR LTRFHNQSEL KDFGTEAARP QKGRKPRPRA RSAKANQAEL ENAY
Purity:	> 95% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Target Details

Target:	Sclerostin (SOST)
Alternative Name:	SOST/Sclerostin (SOST Products)
Background:	SOST, also known as Sclerostin, is a member of the cerberus/DAN family. This protein is

Target Details

	produced primarily by the osteocyte but is also expressed in other tissues, and has anti-anabolic effects on bone formation. It was originally believed to be a nonclassical bone morphogenetic protein (BMP) antagonist. More recently, sclerostin has been identified as binding to LRP5/6 receptors and inhibiting the Wnt signaling pathway. The inhibition of the Wnt pathway leads to decreased bone formation. Although the underlying mechanisms are unclear, it is believed that the antagonism of BMP-induced bone formation by sclerostin is mediated by Wnt signaling, but not BMP signaling pathways. Mutations in the gene that encodes the sclerostin protein are associated with disorders associated with high bone mass, sclerosteosis and van Buchem disease. Recombinant human SOST/Sclerostin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	22.7kDa (200aa)
NCBI Accession:	NP_079513

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.