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Datasheet for ABIN7504495

Osteomodulin Protein (OMD) (AA 21-421) (His tag)

Overview

Quantity:	100 µg
Target:	Osteomodulin (OMD)
Protein Characteristics:	AA 21-421
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteomodulin protein is labelled with His tag.

Product Details

Purpose:	Human Osteomodulin Protein
Sequence:	Gln21-Glu421
Characteristics:	Recombinant Human Osteomodulin Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln21-Glu421.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Osteomodulin (OMD)
Alternative Name:	Osteomodulin (OMD Products)

Target Details

Background:	Osteomodulin (OMD) is a member of the small leucine-rich repeat proteoglycan family, which is involved in the organization of the extracellular matrix. OMD is located in bone tissue and is reportedly important for bone mineralization. Mechanistically, OMD could bind to BMP2 via its terminal leucine-rich repeats and formed complexes with BMP2 and its membrane receptors, thus promoting BMP/SMAD signal transduction. In addition, OMD was a putative target gene of SMAD4, which plays a pivotal role in this pathway.
Molecular Weight:	48.25 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
UniProt:	Q99983
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months