Datasheet for ABIN7504488

OGN Protein (AA 21-298) (His tag)

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Overview

Quantity:	100 µg
Target:	OGN
Protein Characteristics:	AA 21-298
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OGN protein is labelled with His tag.

Product Details

Purpose:	Human OGN/Osteoglycin Protein
Sequence:	Pro21-Phe298
Characteristics:	Recombinant Human OGN/Osteoglycin Protein is expressed from HEK293 with His tag at the C-terminus.It contains Pro21-Phe298.
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:	OGN
Alternative Name:	OGN (OGN Products)

Target Details

Background:	Osteoglycin (OGN, a.k.a. mimecan) belongs to cluster III of the small leucine-rich proteoglycans (SLRP) of the extracellular matrix (ECM). In vertebrates OGN is a characteristic ECM protein of bone. The function of OGN has mainly been studied in mammals in which it regulates collagen fibrillogenesis, the efficiency of which is increased when it is processed by BMP-1/Tolloid-like metalloproteinases. OGN has a role in wound healing in the cornea, in ath erosclerotic lesions and modulates myocardial integrity and remodelling. In addition, OGN enhances the neurite outgrowth promoted by insulin-like growth factor-2 and IGF binding protein-2.
Molecular Weight:	32.83 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
UniProt:	P20774
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

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