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Datasheet for ABIN7317587

Osteoactivin Protein (GPNMB) (AA 1-474) (His tag)

Overview

Quantity:	100 µg
Target:	Osteoactivin (GPNMB)
Protein Characteristics:	AA 1-474
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteoactivin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GPNMB Protein (aa 1-474, His Tag)
Sequence:	Met 1-Pro 474
Characteristics:	A DNA sequence encoding the human GPNMB isoform 2 (Q14956-2) extracellular domain (Met 1-Pro 474) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	Osteoactivin (GPNMB)
Alternative Name:	GPNMB (GPNMB Products)
Background:	Background: GPNMB belongs to the PMEL / NMB family, also known as Osteoactivin and

Target Details

Hematopoietic growth factor-inducible neurokinin 1 (HGFIN), is a transmembrane glycoprotein that is expressed in numerous cells, including osteoclasts, macrophages, dendritic cells, and tumor cells. It is suggested to influence osteoblast maturation, cell adhesion and migration. GPNMB protein acts as a downstream mediator of BMP-2 effects on osteoblast differentiation and function. GPNMB participates in bone mineralization, and functions as a negative regulator of inflammation in macrophages. Osteoactivin is expressed at high levels in normal and inflammatory liver macrophages suggesting a significant role in acute liver injury. The early-phase upregulation of Osteoactivin expression in the tubular epithelium in response to renal injury might play a role in triggering renal interstitial fibrosis via activation of matrix metalloproteinase expression and collagen remodeling in rats. Osteoactivin as a protein that is expressed in aggressive human breast cancers and is capable of promoting breast cancer metastasis to bone.

Synonym: Transmembrane Glycoprotein NMB, Transmembrane Glycoprotein HGFIN, GPNMB, HGFIN,NMB,Osteoactivin

Molecular Weight: 52.1 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: 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.