Recombinant Human GPNMB Protein (Fc Tag)

Catalog No. PKSH031160

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

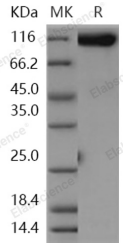
Description

Synonyms	Transmembrane Glycoprotein NMB;Transmembrane Glycoprotein HGFIN;GPNMB;HGFIN;NMB;Osteoactivin
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Pro474
Accession	Q14956-2
Calculated Molecular Weight	77.8 kDa
Observed molecular weight	114 kDa
Tag	C-hFc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

GPNMB belongs to the PMEL / NMB family; also known as Osteoactivin and Hematopoietic growth factor-inducible

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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.

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