Recombinant Human GPNMB Protein (Fc Tag)

Catalog Number: 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

Sequence

Met 1-Pro474

Accession

Q14956-2

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Pro474

77.8 kDa

114 kDa

C-hFc

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°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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

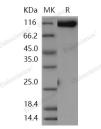
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 95 % as determined by reducing SDS-PAGE.

Background

GPNMB belongs to the PMEL / NMB family; also known as Osteoactivin and 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

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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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