

Recombinant Human GPNMB Protein (aa 1-474, His Tag)



Catalog Number:PKSH031159

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

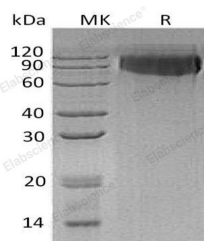
Description

| | |
|------------------------------------|--|
| Synonyms | Transmembrane Glycoprotein NMB;Transmembrane Glycoprotein HGFIN;GPNMB;HGFIN;NMB;Osteoactivin |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met 1-Pro 474 |
| Accession | Q14956-2 |
| Calculated Molecular Weight | 52.1 kDa |
| Tag | C-His |

Properties

| | |
|-----------------------|---|
| Purity | > 98 % 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



> 98 % 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 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

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of promoting breast cancer metastasis to bone.

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