

Recombinant Human GPNMB Protein (aa 22-486, His Tag)

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by Elabscience

Catalog Number:PKSH033371

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

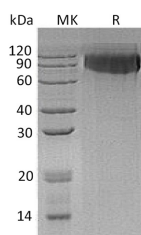
Description

| | |
|------------------------------------|--|
| Synonyms | Transmembrane Glycoprotein NMB;Transmembrane Glycoprotein HGFIN;GPNMB;HGFIN;NMB;Osteoactivin |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Ala22-Pro486 |
| Accession | Q14956 |
| Calculated Molecular Weight | 53.1 kDa |
| Observed molecular weight | 80-120 kDa |
| Tag | C-His |

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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. 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 man |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Osteoactivin is an intracellular glycoprotein belongs to the NMB/pMEL-17 family; which is associated with cell endosomal/lysosomal compartments. Human Osteoactivin is a 560 amino acid type I transmembrane protein; and one alternate splice form shows a 12 amino acid insert between amino acid 339-340. An additional 206 amino acid isoform shows a mutation at position 181 that results in a 26 amino acid substitution for the C-terminal 380 amino acids. Cells known to express Osteoactivin include fibroblast; osteoblasts; myeloid dendritic cell; melanocytes; plus fetal chondrocytes and stratum basale keratinocytes; macrophages/keratinocytes.

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