

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

Catalog No. PKSH033371

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

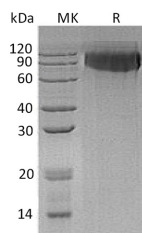
Description

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
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°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% Tween 80 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

Osteoactivin is an intracellular glycoprotein belongs to the NMB/pMEL-17 family; which is associated with cell

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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.