Recombinant Human GPNMB (C-6His)

Catalog No: C497

Description	Recombinant Human Glycoprotein Non-Metastatic Melanoma Protein B is produced by our Mammalian expression system and the target gene encoding Ala22-Pro486 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Transmembrane Glycoprotein NMB; Transmembrane Glycoprotein HGFIN; GPNMB; HGFIN; NMB
Predicted Molecular Weight	53.09kDa
AP Molecular Weight	80-120kDa, reducing conditions.
Accession No.	Q14956
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Background	Osteoactivin is an intracellular glycoprotein belongs to the NMB/pMEL-17 family, which is asscociated with cell endosomal/lysomal 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 knowns to express Osteoactivin include fibroblast, osteoblasts, myeloid dendritic cell, melanocytes, plus fetal chondrocytes and stratum basale keratinocytes, macrophages/keratinocytes.

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