

Recombinant Human glycoprotein (transmembrane) nmb Protein, Fc&Avi tagged, Biotin Labeled

Cat. No. GPNMB-11H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Osteoactivin/GPNMB Protein (Lys23-Asn486) with Human IgG1 (Pro100-Lys330) Fc tag and Avi-tag at C-terminus was expressed in Human embryonic kidney cell.

Species Human

Source HEK293

ProteinLength 23-486aa

Description The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene.

Tag C-Fc&Avi

Conjugation/Label Biotin

Form Disulfide-linked homodimer
Biotinylated via Avi-tag

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Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Integrin alpha V beta 3 is immobilized at 2 µg/mL (100 µL/well), Biotinylated Recombinant Human Osteoactivin/GPNMB Fc Chimera Avi-tag binds with an ED50 of 1.00-12.0 µg/mL.
Molecular Mass	80 kDa
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.
Purity	> 85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Lys23
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Conjugation	Biotin

GENE INFORMATION

Gene Name [GPNMB glycoprotein nmb \[Homo sapiens \(human\) \]](#)

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Official Symbol	GPNMB
Synonyms	GPNMB; glycoprotein (transmembrane) nmb; transmembrane glycoprotein NMB; glycoprotein NMB; glycoprotein nmb like protein; HGFIN; NMB; osteoactivin; transmembrane glycoprotein; glycoprotein nmb-like protein; transmembrane glycoprotein HGFIN
Gene ID	10457
mRNA Refseq	NM_001005340
Protein Refseq	NP_002501
MIM	604368
UniProt ID	Q14956
SDS-PAGE	 <p>2 µg/lane of Recombinant Human Osteoactivin/GPNMB Fc Chimera Avi-tag Protein</p>

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was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie Blue staining, showing bands at 110-126 kDa and 220-250 kDa, respectively.

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