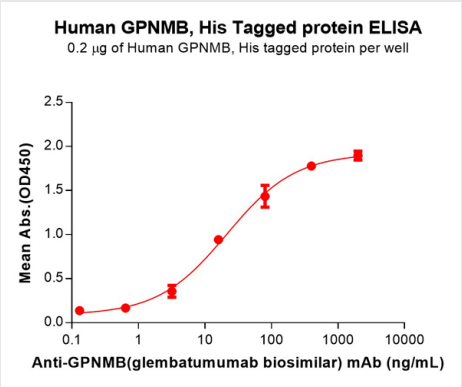
GPNMB Human Recombinant Protein

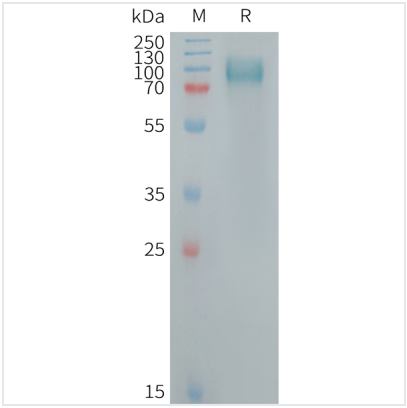
PRODUCT OVERVIEW

Product Name	GPNMB, Recombinant Protein
Full Product Name	Human GPNMB Protein, His Tag
Product Gene Name	GPNMB recombinant protein
Product Synonym Names	HGFIN; NMB; PLCA3
Sequence	GPNMB(Lys2 3-Met496) 6×His tag
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Purity/Purification	Purified from cell culture supernatant by affinity chromatography The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	62,643 Da
OMIM	604368
3D Structure	ModBase 3D Structure for Q14956
Tag	C-6×His Tag
Product Categories/Family for GPNMB recombinant protein	ECD 1182; ECD Proteins
Related Product Information for GPNMB recombinant protein	Recombinant Human GPNMB Protein with C-terminal 6×His tag 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. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of GPNMB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPNMB purchase	MBS189448 is a recombinant protein targeting GPNMB. Also known as Human GPNMB Protein, His Tag. Host: HEK293.



ELISA (EIA) of GPNMB recombinant protein

Figure 1.Human GPNMB Protein, His Tag on SDS-PAGE under reducing condition.



SDS-Page of GPNMB recombinant protein

Figure 1.Human GPNMB Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPNMB. It may not necessarily be applicable to this product.

NCBI GI #	52694752
NCBI GeneID	10457
NCBI Accession #	NP_001005340.1
UniProt Primary Accession #	Q14956
UniProt Secondary Accession #	Q6UVX1; Q8N1A1; A4D155
UniProt Related Accession #	Q14956
GenBank Nucleotide #	NM_001005340.1
NCBI Official Full Name	transmembrane glycoprotein NMB isoform a
NCBI Official Synonym Full Names	glycoprotein (transmembrane) nmb
NCBI Official Symbol	GPNMB
NCBI Official Synonym Symbols	NMB; HGFIN
UniProt Protein Name	Transmembrane glycoprotein NMB
UniProt Synonym Protein Names	Transmembrane glycoprotein HGFIN
Protein Family	Transmembrane glycoprotein
UniProt Gene Name	GPNMB
UniProt Synonym Gene Names	HGFIN; NMB
UniProt Entry Name	GPNMB_HUMAN
NCBI Protein Information	transmembrane glycoprotein NMB; glycoprotein nmb-like protein; osteoactivin; transmembrane glycoprotein HGFIN
NCBI Summary for GPNMB	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. [provided by RefSeq, Jul 2008]

UniProt Comments for GPNMB	GPNMB: Could be a melanogenic enzyme. Belongs to the PMEL/NMB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 7p15 Cellular Component: integral to plasma membrane; integral to membrane; melanosome Molecular Function: heparin binding; integrin binding Biological Process: osteoblast differentiation; negative regulation of cell proliferation; cell adhesion; bone mineralization
Research Articles on GPNMB	**1.** DC-HIL+ CD14+ HLA-DR no/low cells are a potential blood marker and therapeutic target for melanoma
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