

## 32-3918: GPNMB HEK Recombinant Protein

**Alternative Name :** Transmembrane glycoprotein NMB, Transmembrane glycoprotein HGFIN, GPNMB, HGFIN, NMB.

### Description

Source : HEK 293. GPNMB Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (a.a 22-486) containing a total of 477 amino acids, having a molecular mass of 53.7kDa (calculated), though it migrates at approximately 97kDa on SDS PAGE, the GPNMB is fused to a 2 a.a C-terminal linker and a 10 a.a His tag at C-Terminus. The Human GPNMB is purified by proprietary chromatographic techniques. Glycoprotein Nmb (GPNMB) is a member of the PMEL/NMB family. GPNMB is a type I transmembrane glycoprotein which exhibits homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB is expressed in the lowly metastatic human melanoma cell lines and xenografts but has no expression in the highly metastatic cell lines. GPNMB might be involved in growth delay and reduction of metastatic potential. GPNMB is up-regulated in a number of cancer cells, including in glioblastoma multiforme. GPNMB is expressed in many melanoma cells, as well as in tissue macrophages, including liver Kupffer cells and lung alveolar macrophages, in podocytes and in some cells of the ciliary body of the eye (at protein level). GPNMB is hardly detectable in the healthy brain.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.
<b>Storage condition :</b>	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.
<b>Amino Acid :</b>	AKRFHDLVGN ERPSAYMREH NQLNGWSSDE NDWNEKLYPV WKRGD MRWKN SWKGGRVQAV LTSDSPALVG SNITFAVNLI FPRCQKEDAN GNIVYEKNCR NEAGLSADPY VYNWTAWSED SDGENGTGQS HHNVFPDGKP FPHHPGWRRW NFIYVFHTLG QYFQKLGRCV VRVSVNTANV TLGPQLMEVT VYRRHGRAYV PIAQVKDVYV VTDQIPVFVT MFQKNDNRSS DETFLKDLPI MFDVLIHDPS HFLNYSTINY KWSFGDNTGL FVSTNHTVNH TYVLNGTFSL NLTVKAAAPG PCPPPPPPR PSKPTPLAT TLKSYDSNTP GPAGDNPLEL SRIPDENCQI NRYGHFQATI TIVEGILEVN IIQMTDVLMP VPWPSSLID FVVTCCQSIP TEVCTIISDP TCEITQNTVC SPVDVDEMCL LTVRRTFNGS GTYCVNLTG DDTSLALTST LISVP KLHHH HHHHHHH.

### Application Note

It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. GPNMB is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

