
Product Data Sheet

Product Name: GPNMB Human, HEK

Cat. No.: GP23594

Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Transmembrane glycoprotein NMB; Transmembrane glycoprotein HGFIN; GPNMB; HGFIN; NMB.		
Amino Acid Sequence	AKRFHDVLDGN ERPSAYMREH NQLNGWSSDE NDWNEKLYPV WKRGDMRWKN SWKGGRVQAV LTSDSPALVG SNITFAVNLI FPRCQKEDAN GNIVYEKNCR NEAGLSADPY VYNWTAWSED SDGENGTGQS HHNVFPDGKP FPHHPGWRRW NFIYVFHTLG QYFQKLGRCV VRVSVNTANV TLGPQLMEVT VYRRHGRAYV PIAQVKDVYV VTDQIPVFTV MFQKNDNRSS DETFLKDLPI MFDVLIHDPS HFLNYSTINY KWSFGDNTGL FVSTNHTVNH TYVLNGTFSL NLTVKAAAPG PCPPPPPPR PSKPTPSLAT TLKSYDSNTP GPAGDNPLEL SRIPDENCQI NRYGHFQATI TIVEGILEVN IIQMTDVLMP VPWPSSLID FVVTQGSIP TEVCTIISDP TCEITQNTVC SPVDVDEMCL LTVRRTFNGS GTYCVNLTG DDTSLALTST LISVP KLHHH HHHHHHH.		
Solubility	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.		
Formulation	Filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

Introduction

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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 Kuppfer 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.

Stability

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.

Background

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.

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