
Product Data Sheet

Product Name: GPNMB Human, Sf9

Cat. No.: GP23595

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Transmembrane glycoprotein NMB; Transmembrane glycoprotein HGFIN; GPNMB; HGFIN; NMB; Glycoprotein (transmembrane) nmb.		
Amino Acid Sequence	ADPAKRFHDV LGNERPSAYM REHNQLNGWS SDENDWNEKL YPVWKRGD MR WKNSWKGG RV QAVLTS DSPA LVGSNITFAV NLIFPRCQKE DANGNIVYEK NCRNEAGLSA DPYVYNWTAW SEDSDGENGT GQSHHN VFPD GKPFPHHPGW RRWNFIYVFH TLGQYFQKLG RCSVRVSVNT ANVTLGPQLM EVT VYRRHGR AYVPIAQVKD VYVVT DQIPV FVTMFQKNDR NSSDETFLKD LPIMFDVLIH DPSHFLNYST INYKWSFGDN TGLFVSTNHT VNHTYVLNGT FSLNLT VKAA APGPCPPPPP PPRPSKPTPS LGPAGDNPLE LSRIPDENCQ INRYGHFQAT ITIVEGILEV NIIQMTD VLM PVPWPESLI DFVVTCQ GSI PTEVCTIISD PTCEITQNTV CSPVDVDEMC LLTVRRTFNG SGTYCVNLTL GDDTSLALTS TLISVPHHHH HH.		
Formulation	GPNMB protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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. 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

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

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healthy brain.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GPNMB Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 462 amino acids (22-474a.a.) and having a molecular mass of 51.8kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). GPNMB is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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