

Recombinant Human GPNMB, His-tagged

Cat. No. GPNMB-2280H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GPNMB protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	476aa
Description	GPNMB is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. The protein 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	53.2kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS AKRFHDV LGNERPSAYM REHNQLNGWS SDENDWNEKL YPVWKR GDMR WKNSWK GGRV QAVLTSDSPA LVGSNITFAV NLIFPRCQKE DANGNIVYEK NCRNEAGLSA DPYVYNWTAW SEDSDGENGT GQSHHN VFPD GKPFPHPGW RRWNFIYVFH TLGQYFQKLG RCSVRVSVNT ANVTLGPQLM EVT VYRRHGR AYPVIAQVKD VYVVTDQIPV FVTMFQKNDR

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NSSDETFLKD LPIMFDVLIH DPSHFLNYST INYKWSFGDN TGLFVSTNHT
 VNHTYVLNGT FSLNLTVKAA APGPCPPPPP PPRPSKPTPS LGPAGDNPLE
 LSRI PDENCQ INRYGHFQAT ITIVEGILEV NIIQMTDVLM PVPWPESLI
 DFVVTQCSI PTEVCTIISD PTCEITQNTV CSPVDVDEMC LLTVRRTFNG
 SGTYCVNLTL GDDTSLALTS TLISVP

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

GENE INFORMATION

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

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_001005340](#)

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MIM	604368
UniProt ID	Q14956
Chromosome Location	7p
Function	heparin binding; integrin binding;

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