

# Recombinant human Osteoactivin/GPNMB protein

Catalog Number: ATGP2280

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

22-474aa

### UniProt No.

Q14956

### NCBI Accession No.

NP\_002501

### Alternative Names

Transmembrane glycoprotein NMB, Glycoprotein NMB, Glycoprotein nonmetastatic melanoma protein B, Hematopoietic growth factor inducible neurokinin-1, HGFIN

## PRODUCT SPECIFICATION

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### Molecular Weight

53.2 kDa (476aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human GPNMB protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

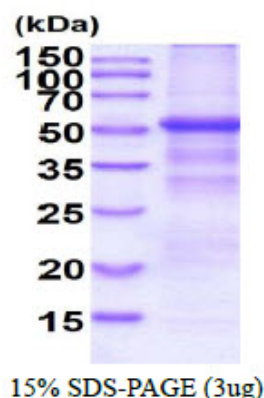
MGSSHHHHHH SGLVPRGSH MGSAKRFHDV LGNERPSAYM REHNQLNGWS SDENDWNEKL YPVWKRGD MR  
WKNSWKGG RV QAVLTSDSPA LVGSNITFAV NLIFPRCQKE DANGNIVYEK NCRNEAGLSA DPYVYNWTAW SEDSDGENGT  
GQSHHNVPD GKPFPHHPGW RRWNFIYVFH TLGQYFQKLG RCSVRVSVNT ANVTLGPQLM EVTYYRRHGR AYPVIAQVKD  
YVVVTDQIPV FVTMFQKNDR NSSDETFLKD LPIMFDVLIH DPSHFLNYST INYKWSFGDN TGLFVSTNHT VNHTYVLNGT  
FSLNLTVKAA APGPCPPPPP PPRPSKPTPS LGPAGDNP LE LSRIPDENCQ INRYGHFQAT ITIVEGILEV NIIQMTDVL M  
PVPWPESLI DFVVT CQGS I PTEVCTIISD PTCEITQNTV CSPVDVDEMC LLTVRRTFNG SGT YCVNLTL GDDTSLALTS  
TLISVP

## General References

Rose A.A., et al. (2010) PLoS ONE. 5:e12093-e12093  
Patel-Chamberlin M., et al. (2011) Kidney Int. 79:1138-1148

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.