

Recombinant human Osteoactivin/GPNMB protein

Catalog Number: ATGP2280

PRODUCT INFORMATION

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

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

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

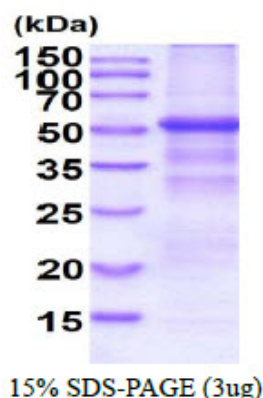
MGSSHHHHHH SSGLVPRGSH MGSAKRFHDV LGNERPSAYM REHNQLNGWS SDENDWNEKL YPVWKRGD MR
 WKNSWKGG RV QAVLTSDSPA LVGSNITFAV NLIFPRCQKE DANGNIVYEK NCRNEAGLSA DPYVYNWTAW SEDSDGENGT
 GQSHHNVPD GKPFPHHPGW RRWNFIYVFH TLGQYFQKL G RCSVRVSVNT ANVTLGPQLM EVTYYRRHGR AYPVIAQVKD
 VYVVTDQIPV FVTMFQKNDR NSSDETFLKD LPIMFDVLIH DPSHFLNYST INYKWSFGDN TGLFVSTNHT VNHTYVLNGT
 FSLNLT VKAA APGPCPPPPP PPRPSKPTPS LGPAGDNPLE LSRIPDENCQ INRYGHFQAT ITIVEGILEV NIIQMTDVL M
 PVPWPES SLI DFVVT CQGS I PTEVCTIISD PTCEITQNTV CSPVDVDEMC LLTVRRTFNG SGT YCVNLT L 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.