

Recombinant human Osteoactivin/GPNMB protein

Catalog Number: ATGP3523

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-474aa

UniProt No.

Q14956

NCBI Accession No.

NP_002501.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

51.8 kDa (462aa)

Concentration

0.5mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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, also known as glycoprotein nmb, is a transmembrane glycoprotein that is expressed in numerous cells, including osteoclasts, macrophages, dendritic cells, and tumor cells. It shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. This

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protein participates in bone mineralization, and functions as a negative regulator of inflammation in macrophages. It may be involved in growth delay and reduction of metastatic potential. Recombinant human GPNMB protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>AKRFHDV LGNERPSAYM REHNQLNGWS SDENDWNEKL YPVWKRGD MR WKNSWKGGRRV QAVLTSDSPA
LVGSNITFAV NLIFPRCQKE DANGNIVYEK NCRNEAGLSA DPYVYNWTAW SEDSDGNGT GQSHHNVPD GKPFPHHPGW
RRWNFIYVFH TLGQYFQKLG RCSVRVSVNT ANVTLGPQLM EVTVYRRHGR AYVPIAQVKD VYVVTDQIPV FVTMFQKNDR
NSSDETFLKD LPIMFDVLIH DSPHFLNYST INYKWSFGDN TGLFVSTNHT VNHTYVLNGT FSLNLTVKAA APGPCPPPPP
PPRPSKPTPS LGPAGDNPLE LSRIPDENCQ INRYGHFQAT ITIVEGILEV NIIQMTDVL M PVPWPESLI DFVVCQGSI
PTEVCTIISD PTCEITQNTV CSPVDVDEMC LLTVRRTFNG SGT YCVNLTL GDDTSLALTS TLISVP<HHHH HH>

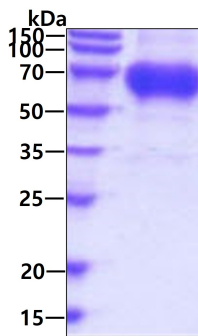
General References

Huang JJ., et al. (2012) Brain Behav. 2: 85-96.

Kumagai K., et al. (2015) PLoS One. 10: e0143413.

DATA

SDS-PAGE



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