



## Synonym

GPNMB, HGF1N, NMB, Osteoactivin

## Source

Human Osteoactivin, His Tag (GPB-H5229) is expressed from human 293 cells (HEK293). It contains AA Ala 22 - Pro 486 (Accession # [AAH32783](#)).

Predicted N-terminus: Ala 22

## Molecular Characterization

GPNMB(Ala 22 - Pro 486) AAH32783	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 53.4 kDa. The protein migrates as 85-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

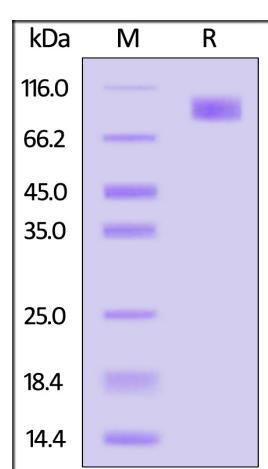
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human Osteoactivin, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

Transmembrane glycoprotein NMB (GPNMB) is also known as Transmembrane glycoprotein HGF1N, DC-HIL and Osteoactivin (OA), which belongs to the PMEL/NMB family. GPNMB contains one PKD domain. GPNMB is a transmembrane glycoprotein that is up-regulated in various cancer cells, including in glioblastoma multiforme and is expressed in many melanoma cells, as well as in tissue macrophages. GPNMB protein acts as a downstream mediator of BMP-2 effects on osteoblast differentiation and function. GPNMB participates in bone mineralization, and functions as a negative regulator of inflammation in macrophages.

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Human Osteoactivin / GPNMB Protein, His Tag

Catalog # GPB-H5229



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