

# Human Osteoactivin/GPNMB Protein, Ultra Low Endotoxin

Cat. No. GNB-HM101-UL

## Description

<b>Source</b>	Recombinant Human Osteoactivin/GPNMB Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys23-Asn486.
<b>Accession</b>	NP_002501.1
<b>Molecular Weight</b>	The protein has a predicted MW of 53.1 kDa. Due to glycosylation, the protein migrates to 78-98 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

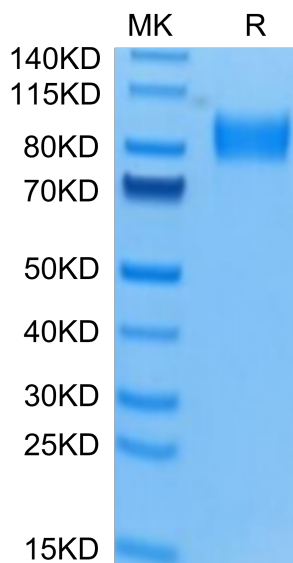
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

GPNMB is highly expressed in macrophages and microglia, which are cells involved with innate immune response in the periphery and the brain, respectively. Some studies have shown increased levels of GPNMB in pro-inflammatory conditions, such as LPS treatment, and in pathological conditions, such as neurodegenerative diseases and cancer.

## Assay Data

### Bis-Tris PAGE



Human Osteoactivin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.