

Human Osteoactivin/GPNMB Protein

Cat. No. GNB-HM101

Description

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| Source | Recombinant Human Osteoactivin/GPNMB Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys23-Asn486. |
| Accession | NP_002501.1 |
| Molecular Weight | 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. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

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| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -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.

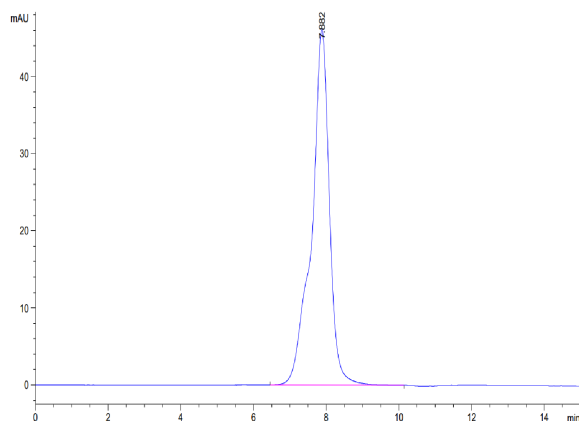
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human Osteoactivin is greater than 95% as determined by SEC-HPLC.