

For Research Use Only

Recombinant Mouse GPNMB protein (rFc Tag)



Catalog Number: Eg2814

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse GPNMB protein Lys23-Asn502 (Accession# Q99P91) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
93695

Accession:
Q99P91

Predicted Molecular Mass:
79.7 kDa

SDS-PAGE:
90-125 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

GPNMB is an endogenous type 1 transmembrane glycoprotein that was first described in 1995 as more highly expressed in low-metastatic melanoma cell lines. GPNMB is also known as Osteactivin, DC-HIL (dendritic cell heparan sulfate proteoglycan integrin-dependent ligand), and HGFIN (hematopoietic growth factor inducible neurokinin-1 type). While the name GPNMB is more broadly used, the name Osteoactivin is mostly used in studies with bones, while DC-HIL and HGFIN are commonly used in studies about the immune system and cells. GPNMB is constitutively expressed through most cell types and tissues, and its expression can be increased in cancer cells.

References

1. Weterman MA, et al. *Int J Cancer* (1995) 60(1):73-81.
2. Taya M, et al. *Steroids* (2018) 133:102-7.
3. Saade M, et al. *Front Immunol*. 2021 May 12;12:674739.

Synonyms

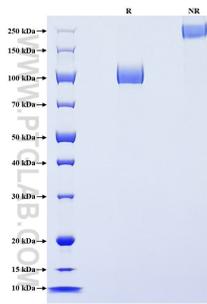
Dchil, DC-HIL, Dendritic cell-associated transmembrane protein, Gpnmb, Hgfin

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse GPNMB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.