

For Research Use Only

Recombinant Rat Osteoactivin/GPNMB protein (rFc Tag)



Catalog Number: Eg3283

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat Osteoactivin protein Lys23-Thr498 (Accession# Q9QZF6) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
113955

Accession:
Q9QZF6

Predicted Molecular Mass:
79.6 kDa

SDS-PAGE:
100-115 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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 also known as HGFIN, osteoactivin, and DC-HIL, is a type I membrane glycoprotein involved in various biological processes, including inflammation, invasion and metastasis of malignant tumors, cell differentiation, and tissue regeneration. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB acts as an osteogenic factor that stimulates osteoblast differentiation in vivo and in vitro.

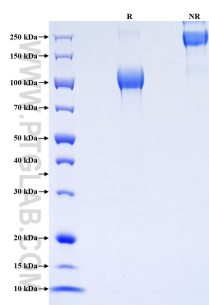
References

1. Li X, Xu J, et al. (2024) Cell Transplant. 33:9636897241233040.
2. Hou L, Zhang Y, et al. (2015) J Mol Neurosci. 55(2):533-40.

Synonyms

Osteoactivin

Selected Validation Data



Purity of Recombinant Rat Osteoactivin 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.

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

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