Recombinant Rat glycoprotein (transmembrane) nmb Protein, mIgG2a tagged

Cat. No. Gpnmb-10R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Osteoactivin/GPNMB Protein (Lys23-Asn500) with Mouse IgG2a (Glu98-Lys330) Fc tag at C-terminus was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	23-500aa
Description	Predicted to enable heparin binding activity; signaling receptor binding activity; and syndecan binding activity. Involved in bone mineralization and osteoblast differentiation. Predicted to be located in cytoplasmic vesicle. Predicted to be integral component of membrane. Predicted to be integral component of plasma membrane. Human ortholog(s) of this gene implicated in primary localized cutaneous amyloidosis 3. Orthologous to human GPNMB (glycoprotein nmb).
Tag	C-mIgG2a
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse Integrin alpha V beta 3 is immobilized at 2 μg/mL (100 μL/well), Recombinant Rat Osteoactivin/GPNMB Fc Chimera binds with an ED50 of 0.700-7.00 μg/mL.

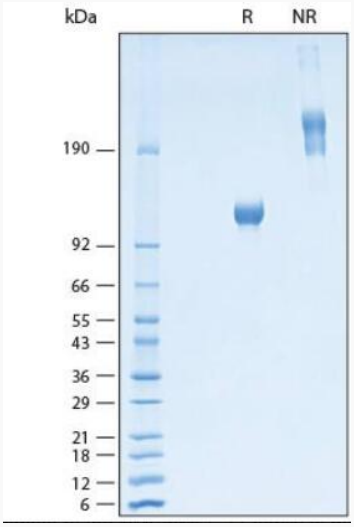
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Molecular Mass	54 kDa
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Lys23
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 500 μg/mL in PBS.

GENE INFORMATION

Gene Name	Gpnmb glycoprotein nmb [Rattus norvegicus (Norway rat)]
Official Symbol	Gpnmb
Synonyms	GPNMB; glycoprotein (transmembrane) nmb; transmembrane glycoprotein NMB; osteoactivin
Gene ID	113955

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mRNA Refseq	NM_133298
Protein Refseq	NP_579832
UniProt ID	Q6P7C7
SDS-PAGE	 2 μg/lane of Recombinant Rat Osteoactivin/GPNMB Fc Chimera Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie Blue staining, showing bands at 100-122 kDa and 200-240 kDa, respectively.

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