Data Sheet (Cat.No.TMPJ-01119)

TargetMol

Osteoactivin/GPNMB Protein, Human, Recombinant (aa 22-486, His)

General Information

Synonyms:	Transmembrane Glycoprotein NMB;HGFIN;NMB;GPNMB;Transmembrane Glycoprotein HGFIN
Protein Construction:	Ala22-Pro486
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q14956
Molecular Weight:	80-120 KDa (reducing condition)
AA Sequence:	Ala22-Pro486

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Osteoactivin is an intracellular glycoprotein belongs to the NMB/pMEL-17 family, which is asscociated with cell endosomal/lysomal compartments. Human Osteoactivin is a 560 amino acid type I transmembrane protein, and one alternate splice form shows a 12 amino acid insert between amino acid 339-340. An additional 206 amino acid isoform shows a mutation at position 181 that results in a 26 amino acid substitution for the C-terminal 380 amino acids. Cells knowns to express Osteoactivin include fibroblast, osteoblasts, myeloid dendritic cell,

melanocytes, plus fetal chondrocytes and stratum basale keratinocytes, macrophages/keratinocytes.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481