

Recombinant Mouse GPNMB Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51863

Size: 10ug, 100ug

Protein Name: Transmembrane glycoprotein NMB (DC-HIL) (Dendritic cell-associated transmembrane protein) (Osteoactivin)

Synonym: Gpnmb, Dchil, Hgfin, Nmb

UniProt ID: Q99P91

UniProt Link: www.uniprot.org/uniprotkb/Q99P91/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 574 AA

Molecular Weight: 64 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MESLCGVLGFLLLAAGLPLQAAKRFRDVLGHEQYPDHMREHNQLRGWSSDENEDHLYPVWRR
GDGRWKDSWEGGRVQAVLTSDSPALVGSNITFVNLVFPQCQKEDANGNIVYEKNCRNDLGLTSD
LHVYNWTAGADDGDWEDGTSRSQHLRFPDRPFPRPHGWKKWSFVYVFHTLGQYFQKLGRCSA
RVSINTVNLTAGPQVMEVTVFRRYGRAYIPISKVKDVYVITDQIPVFVTMSQKNDNRNLSDEIFLRDLPIV
FDVLIHDP SHFLNDS AISYKWNFGDNTGLFVSNNHTLNHTYVLNGTFNLNLTVQTAVPGPCPPSPS
TPPPPSTPPSPPPSPLPTLSTPSPSLMPTGYKSMELSDISNENCRINRYGYFRATITIVEGILEVSIMQI
ADVPMPTPQPANSLMDFTVTCKGATPMEACTIISDPTCQIAQNRVCSPVAVDGLCLLSVRRAFNGSG
TYCVNFTLGDDASLALTSTLISIPGKDPD SPLRAVNGVLISIGCLAVLVTMTILLYKKHKAYKPIGNCP
RNTVKGKGLSVLLSHAKAPFFRGDQEKDPLLQDKPRTL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Transmembrane glycoprotein NMB (DC-HIL) (Dendritic cell-associated transmembrane protein) (Osteoactivin) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Could be a melanogenic enzyme.

Subcellular Localization: Cell membrane; Single-pass type I membrane protein . Melanosome membrane; Single-pass type I membrane protein . Early endosome membrane; Single-pass type I membrane protein . Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.