

HUMAN GPNMB PROTEIN, HIS TAG**Cat.#:** 11912**Product Name:** Human GPNMB Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** HGFIN;NMB;PLCA3**Target:** GPNMB**UNIPROT ID:** Q14956**Description:** Recombinant Human GPNMB Protein with C-terminal 6xHis tag**Background:** The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. 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 may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 53.9 kDa after removal of the signal peptide. The apparent molecular mass of GPNMB-His is approximately 70–130 kDa due to glycosylation.**Molecular Characterization:** GPNMB(Lys23–Met496) 6×His tag**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human GPNMB Protein, His Tag on SDS-PAGE under reducing condition.