

GPNMB/Osteoactivin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77116
Synonyms:	Transmembrane Glycoprotein NMB; GPNMB; HGFIN; NMB
Species:	Mouse
Source:	HEK293
Accession:	Q99P91 (K23-N502)
Gene ID:	93695
Molecular Weight:	Approximately 96 kDa

PROPERTIES

AA Sequence	<pre> K R F R D V L G H E Q Y P D H M R E H N Q L R G W S S D E N E W D E H L Y P V W R R G D G R W K D S W E G G R V Q A V L T S D S P A L V G S N I T F V V N L V F P R C Q K E D A N G N I V Y E K N C R N D L G L T S D L H V Y N W T A G A D D G D W E D G T S R S Q H L R F P D R R P F P R P H G W K K W S F V Y V F H T L G Q Y F Q K L G R C S A R V S I N T V N L T A G P Q V M E V T V F R R Y G R A Y I P I S K V K D V Y V I T D Q I P V F V T M S Q K N D R N L S D E I F L R D L P I V F D V L I H D P S H F L N D S A I S Y K W N F G D N T G L F V S N N H T L N H T Y V L N G T F N L N L T V Q T A V P G P C P P P S P S T P P P P S T P P S P P P S P L P T L S T P S P S L M P T G Y K S M E L S D I S N E N C R I N R Y G Y F R A T I T I V E G I L E V S I M Q I A D V P M P T P Q P A N S L M D F T V T C K G A T P M E A C T I I S D P T C Q I A Q N R V C S P V A V D G L C L L S V R R A F N G S G T Y C V N F T L G D D A S L A L T S T L I S I P G K D P D S P L R A V N </pre>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. When 5×10^4 cells/well are added to GPNMB-coated plates (0.25 $\mu\text{g}/\text{mL}$ and 100 $\mu\text{L}/\text{well}$), approximately >22.59% will adhere after 30 minutes at 37°C.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The GPNMB/Osteoactivin protein emerges as a promising candidate for a melanogenic enzyme, suggesting its potential involvement in the synthesis of melanin. Recent research underscores the regulatory influence of GPNMB/Osteoactivin on melanogenesis, highlighting its pivotal role in the intricate process of pigment formation. The protein's capacity to modulate melanin production emphasizes its significance in unraveling the complexities of skin biology and pigmentation pathways. Investigating the molecular mechanisms governing GPNMB/Osteoactivin's role in melanogenesis holds promise for uncovering new insights into the control of skin pigmentation, offering potential avenues for innovative approaches to address disorders associated with pigmentation.

Caution: Product has not been fully validated for medical applications. For research use only.

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