Osteomodulin Protein, Human (HEK293, His)

Cat. No.:	HY-P76529
Synonyms:	Keratan sulfate proteoglycan osteomodulin; OSAD; OMD; SLRR2C
Species:	Human
Source:	HEK293
Accession:	Q99983 (Q21-E421)
Gene ID:	4958
Molecular Weight:	50-70 kDa.

PROPERTIES

AA Sequence	Q Y E T Y Q W D E D Y D Q E P D D D Y Q T G F P F R Q N V D Y G V P F H Q Y T L G C V S E C F C P T N F P S S M Y C D N R K L K T I P N I P M H I Q Q L Y L Q F N E I E A V T A N S F I N A T H L K E I N L S H N K I K S Q K I D Y G V F A K L P N L L Q L H L E H N N L E E F P F P L P K S L E R L L L G Y N E I S K L Q T N A M D G L V N L T M L D L C Y N Y L H D S L L K D K I F A K M E K L M Q L N L C S N R L E S M P P G L P S S L M Y L S L E N N S I S S I P E K Y F D K L P K L H T L R M S H N K L Q D I P Y N I F N L P N I V E L S V G H N K L K Q A F Y I P R N L E H L Y L Q N N E I E K M N L T V M C P S I D P L H Y H H L T Y I R V D Q N K L K E P I S S Y I F F C F P H I H T I Y Y G E Q R S T N G Q T I Q L K T Q V F R R F P D D D D E S E D H D D P D N A H E S P E Q E G A E G H F D L H Y Y E N Q E
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Osteomodulin Protein emerges as a potential player in biomineralization processes, hinting at its involvement in the

intricate mechanisms of mineral deposition. Notably, the protein demonstrates a functional role in binding osteoblasts through the alpha(V)beta(3)-integrin, suggesting a pivotal interaction in bone-related cellular activities. Additionally, Osteomodulin directly binds the alpha(V)beta(3)-integrin, further underscoring its significance in mediating interactions crucial for osteoblast function and potentially influencing processes related to bone formation and remodeling. Elucidating the specific molecular mechanisms and downstream effects of Osteomodulin's interactions with the alpha(V)beta(3)-integrin could provide valuable insights into its role in biomineralization and bone physiology.

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