OGN/Osteoglycin Protein, Human (HEK293, His)

Cat. No.:	HY-P74664
Synonyms:	Mimecan; Osteoglycin; OIF; OGN; SLRR3A
Species:	Human
Source:	HEK293
Accession:	P20774 (P21-F298)
Gene ID:	4969
Molecular Weight:	45-60 kDa

PROPERTIES

AA Sequence	P P T Q Q D S R I I Y D Y G T D N F E E S I F S Q D Y E D K Y L D G K N I K E K E T V I I P N E K S L Q L Q K D E A I T P L P P K K E N D E M P T C L L C V C L S G S V Y C E E V D I D A V P P L P K E S A Y L Y A R F N K I K K L T A K D F A D I P N L R R L D F T G N L I E D I E D G T F S K L S L L E E L S L A E N Q L L K L P V L P P K L T L F N A K Y N K I K S R G I K A N A F K K L N N L T F L Y L D H N A L E S V P L N L P E S L R V I H L Q F N N I A S I T D D T F C K A N D T S Y I R D R I E E I R L E G N P I V L G K H P N S F I C L K R L P I G S Y F
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	OGN/Osteoglycin protein plays a crucial role in bone formation, collaborating with TGF-beta-1 or TGF-beta-2 to induce this process. Its functional synergy with these transforming growth factors underscores its significance in the regulation of bone homeostasis and development. By participating in the intricate signaling pathways involving TGF-beta isoforms, OGN contributes to the orchestration of molecular events that culminate in the formation and maintenance of bone tissue. The collaborative action of OGN with TGF-beta highlights its role as a modulator of bone formation processes, offering potential

	insights into the regulatory mechanisms underlying skeletal health and physiology.

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

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