Periostin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73373
Synonyms:	Osteoblast-specific factor 2; OSF-2; POSTN; Periostin
Species:	Mouse
Source:	HEK293
Accession:	Q62009-1 (N24-Q811)
Gene ID:	50706
Molecular Weight:	80-85 kDa

PROPERTIES

AA Sequence	N S Y Y D K V L A H S R I R G R D Q G P N V C A L Q Q I L G T K K K Y F S S C K N W Y Q G A I C G K K T T V L Y E C C P G Y M R M E G M K G C P A V M P I D H V Y G T L G I V G A T T T Q H Y S D V S K L R E E I E G K G S Y T Y F A P S N E A W E N L D S D I R R G L E N N V N V E L L N A L H S H M V N K R M L T K D L K H G M V I P S M Y N N L G L F I N H Y P N G V V T V N C A R V I H G N Q I A T N G V V H V I D R V L T Q I G T S I Q D F L E A E D D L S S F R A A A I T S D L L E S L G R D G H F T L F A P T N E A F E K L P R G V L E R I M G D K V A S E A L M K Y H I L N T L Q C S E A I T G G A V F E T M E G N T I E I G C E G D S I S I N G I K M V N K K D I V T K N G V I H L I D E V L I P D S A K Q V I E L A G K Q Q T T F T D L V A Q L G L A S S L K P D G E Y T L L A P V N N A F S D D T L S M D Q R L L K L I L Q N H I L K V K V G L S D L Y N G Q I L E T I G G K Q L R V F V Y R T A I C I E N S C M V R G S K Q G R N G A I H I F R E I I Q P A E K S L H D K L R Q D K R F S I F L S L L E A A D L K D L L T Q P G D W T L F A P T N D A F K G M T S E E R E L L I G D K N A L Q N I I L Y H L T P G V Y I G K G F E P G V T N I L K T T Q G S K I Y L K G V N E T L L V N E L K S K E S D I M T T N G V I H V V D K L L Y P A D I P V G N D Q L L E L L N K L I K Y I Q I K F V R G S T F K E I P M T V Y T T K I I T K V V E P K I K V I Q G S L Q P I I K T E G P A M T K I Q I E G D P D F R L I K E G E T V T E V I H G E P V I K K Y T K I I D G V P V E I T E K Q T R E E R I I T G P E I K Y T R I S T G G G E T G E T L Q K F L Q K E V S K V T K F I E G G D G H L F E D E E I K R L L Q
Biological Activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. Immobilized Recombinant Mouse Periostin at 10 μg/mL (100 μL/well) induces 52.34% cell adhesion.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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. For long term storage it is

	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Periostin protein, a multifunctional molecule, plays a pivotal role in cellular processes by inducing cell attachment and spreading, demonstrating its significance in cell adhesion dynamics. Moreover, Periostin contributes to the structural integrity of connective tissues by enhancing the incorporation of BMP1 into the fibronectin matrix, leading to the subsequent proteolytic activation of lysyl oxidase LOX. Structurally, Periostin exists as a homodimer, and functionally, it interacts with key partners including BMP1 and fibronectin. This intricate network of interactions underscores the diverse functions of Periostin in mediating cellular adhesion and contributing to the extracellular matrix architecture of connective tissues, highlighting its essential role in maintaining tissue integrity and function.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA