9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Periostin Human

Periostin Human Recombinant
GRF0316

Product Overview

Name	Periostin Human
Description	
Periostin Human Recombinant	
Accession (Primary)	Q15063
Synonyms	
OSF-2, Periostin, Osteoblast Specific Factor 2, PN OSF-2, PDLPOSTN, POSTN, MGC119510, MGC119511, PN, RP11-412K4.1.	
Introduction	
Periostin is a disulfide linked 90 kDa, 811 amino acid protein originally isolated as a osteoblast-specific factor that functions as a cell adhesion molecule for preosteoblasts and is thought to be involved in osteoblast recruitment, attachment and spreading. Additionally, periostin expression has previously been shown to be significantly increased by both transforming growth factor beta-1(TGFbeta1) and bone morphogenetic protein (BMP-2). OSF-2 has a typical signal sequence, followed by a cysteine-rich domain, a fourfold repeated domain and a C-terminal domain. The fourfold repeated domain of OSF-2 shows homology with the insect protein fasciclin Periostin mRNA is expressed in the developing mouse embryonic and fetal heart, and that it is localized to the endocardial cushions that ultimately divide the primitive heart tube into a four-chambered heart.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 90% as determined by SDS-PAGE.	

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Amino acid sequence

MGHHHHHHHH HHSSGHIEGR HMR NNHYDKI LAHSRIRGRD QGPNVCALQQ ILGTKKKYFS TCKNWYKKSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI DHVYGTLGIV GATTTQRYSD ASKLREEIEG KGSFTYFAPS NEAWDNLDSD IRRGLESNVN VELLNALHSH MINKRMLTKD LKNGMIIPSM YNNLGLFINH YPNGVVTVNC ARIIHGNQIA TNGVVHVIDR VLTQIGTSIQ DFIEAEDDLS SFRAAAITSD ILEALGRDGH FTLFAPTNEA FEKLPRGVLE RFMGDKVASEALMKYHILNT LQCSESIMGG AVFETLEGNT IEIGCDGDSI TVNGIKMVNK KDIVTNNGVI HLIDQVLIPD SAKQVIELAG KQQTTFTDLV AQLGLASALR PDGEYTLLAP VNNAFSDDTL SMVQRLLKLI LQNHILKVKV GLNELYNGQI LETIGGKQLR VFVYRTAVCI ENSCMEKGSK QGRNGAIHIF REIIKPAEKS LHEKLKQDKR FSTFLSLLEA ADLKELLTQP GDWTLFVPTN DAFKGMTSEE KEILIRDKNA LQNIILYHLT PGVFIGKGFE PGVTNILKTT QGSKIFLKEV NDTLLVNELK SKESDIMTTN GVIHVVDKLL YPADTPVGND QLLEILNKLI KYIQIKFVRG STFKEIPVTV Y.

Solubility

It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

Periostin Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q15063)