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**Product Data Sheet**


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Product Name: Periostin Human

Cat. No.: GP20829

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms OSF-2; Periostin; Osteoblast Specific Factor 2; PN OSF-2; PDLPOSTN; POSTN; MGC119510; MGC119511; PN; RP11-412K4.1.

MGHHHHHHHH HHSSGHIEGR HMRNNHYDKI LAHSRIRGRD QGPNVCALQQ  
 ILGTTKKYFS TCKNWYKCSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI  
 DHVYGTLGIV GATTTQRYSD ASKLREEIEG KGSFTYFAPS NEAWDNLDSD  
 IRRGLESNVN VELLNALHSH MINKRMLTKD LKNGMIIPSM YNNLGLFINH  
 YPNGVVTVNC ARIIHGNQIA TNGVVHVIDR VLTQIGTSIQ DFIEAEDDLS  
 SFRAAAITSD ILEALGRDGH FTLFAPTNEA FEKLPRGVLE  
 Amino Acid RFMGDKVASEALMKYHILNT LQCSSESIMGG AVFETLEGNT IEIGCDGDSI  
 Sequence TVNGIKMVNK KDIVTNGVI HLIDQVLIPD SAKQVIELAG KQTTFTDLV  
 AQLGLASALR PDGEYLLAP VNNAFSDDTL SMVQRLLKLI LQNHILKVKV  
 GLNELYNGQI LETIGGKQLR VFVYRTAVCI ENSCMEKGSK QGRNGAIHIF  
 REIIPAEKS LHEKQDKR FSTFLSLLEA ADLKELLTQP GDWTLFVPTN  
 DAFKGMTSEE KEILIRDKNA LQNIILYHLT PGVFIGKGF EPGVTNLIKTT  
 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 10µg/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.

Formulation Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### 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.

### 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 .

### Background

The OSF2 His-Tagged Fusion Protein Human is produced in E. coli, and its molecular weight is 75 kDa protein containing 648 amino acid residues of the human OSF-2 and 23 additional amino acid residues - HisTag, Xa - cleavage site.

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