
Product Data Sheet

Product Name: Periostin Human, HEK

Cat. No.: GP20830

Batch No.: 1

Product Data

Purity >98%

Source HEK 293.

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.

Amino Acid Sequence

NNHYDKILAH SRIRGRDQGP NVCALQQILG TKKKYFSTCK NWKYKKSICGQ
 KTTVLYECCP GYMRMEGMKG CPAVLPIDHV YGTLGIVGAT TTQRYSDASK
 LREEIEGKGS FTYFAPSNEA WDNLDSDIRR GLESNVVEL LNALHSHMIN
 KRMLTKDLKN GMIIPSMYNN LGLFINHYPN GVVTVNCARI IHGNQIATNG
 VVHVIDRVL T QIGTSIQDFI EAEDDLSSFR AAAITSDILE ALGRDGHFTL
 FAPTNEAFEK LPRGVLERIM GDKVASEALM KYHILNTLQC SESIMGGAVF
 ETLEGNTIEI GCDGDSITVN GIKMVNKKDI VTNNGVIHLI DQVLIPDSAK
 QVIELAGKQQ TTFTDLVAQL GLASALRPDG EYLLAPVNN AFSDDTLSMD
 QRLKLLILQN HILKVKVGLN ELYNGQILET IGGKQLRVFV YRTAVCIENS
 CMEKGSKQGR NGAIHIFREI IKPAEKSLHE KLKQDKRFST FLSLLEAADL
 KELLTQPGDW TLFVPTNDAF KGMTSEEKEI LIRDKNALQN ILYHLTPGV
 FIGKGFEPGV TNILKTTQGS KIFLKEVNDT LLVNELKSKE SDIMTTNGVI
 HVVDKLLYP A DTPVGN DQLL EILNKLIKYI QIKFVRG STF KEIPVTVYTT
 KIITKVVEPK IKVIEGSLQP IIKTEGPTLT KVKIEGEPEF RLIKEGETIT EVIHGEPIIK
 KYTKIIDGVP VEITEKETRE ERIITGPEIK YTRISTGGGE TEETLKKLLQ
 EEVTKVTKFI EGGDGH LFED EEIKRLLQGD TPVRKLQANK KVQGSRRRLR
 EGRSQHHHHH H.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Periostin is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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

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Formulation Periostin was filtered (0.4 μm) and lyophilized from 0.5mg/ml solution in phosphate buffered saline and 5% trehalose.

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.

Background

Periostin Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Asn22-Gln836) containing a total of 821 amino acids, having a calculated molecular mass of 91.8kDa and fused to a 6 aa His tag at C-Terminus.

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