

32-1669: Periostin Recombinant Protein

Alternative Name : OSF-2, Periostin, Osteoblast Specific Factor 2, PN
OSF-2, PDLPOSTN, POSTN, MGC119510, MGC119511, PN, RP11-412K4.1.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount : 10 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : Filtered (0.4µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.
Storage condition : 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.
Amino Acid : MGHHHHHHHH HHSSGHEGR HMRNNHYDKI LAHSRIRGRD QGPNVCALQQ ILGTKKKYFS
TCKNWYKCSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI DHVYGTGIV GATTTQRYSD ASKLREEIEG
KGSFTYFAPS NEAWDNLDSD IRRGLESNVN VELLNALHSH MINKRMLTKD LKNGMIIPSM YNNLGLFINH
YPNGVTVNC ARIIHGNQIA TNGVVHVIDR VLTQIGTSIQ DFIEAEDDLS SFRAAAITSD ILEALGRDGH
FTLFAPTNEA FEKLPRGVLE RFMGDKVASEALMKYHILNT LQCSSESIMGG AVFETLEGNT IEIGCDGDSI
TVNGIKMVNK KDIVTNGVI HLIDQVLIPD SAKQVIELAG KQQTTFDLV AQLGLASALR PDGEYTLAP
VNNAFSDDL SMVQRLLKLI LQNHLKVKV GLNELYNGQI LETIGGKQLR VFVYRTAVCI ENSCMEKGSK
QGRNGAIHIF REIKPAEKS LHEKPKQDKR FSTFLSLLA ADLKELLTQP GDWTLFVPTN DAFKGMTSEE
KEILIRDKNA LQNIILYHLT PGVFIGKGFV PGVTNLIKTT QGSKIFLKEV NDTLLVNELK SKESDIMTTN
GVIHVVDKLL YPADTPVGND QLLEILNKLI KYIQIKFVRG STFKEIPVTY.

Application Note

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 10⁻⁶ 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.