



## Product Datasheet

<b>Product Name</b>	Recombinant Human Periostin
<b>Cata No</b>	CB500354
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	OSF-2, Periostin, Osteoblast Specific Factor 2, PN OSF-2, PDLPOSTN, POSTN, MGC119510, MGC119511, PN, RP11-412K4.1

### Description

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.

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 (underlined).

### Purity

Greater than 90% as determined by SDS-PAGE.

### Formulation

Sterile filtered 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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

### Applications

Western blotting, ELISA