

## Periostin/OSF-2 Protein, Rat (HEK293, His)

<b>Cat. No.:</b>	HY-P79348
<b>Synonyms:</b>	Periostin; Periostin, osteoblast specific factor (Predicted), isoform CRA_a; Postn; Postn_predicted; Osteoblast Specific Factor 2
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	D3ZAF5 (N24-S800)
<b>Gene ID:</b>	361945
<b>Molecular Weight:</b>	approximately 95 kDa

### PROPERTIES

#### AA Sequence

NSYYDKVLAH	SRIRGRDQGP	NVCALQQILG	TKKKYFSSCK
NWYQGAICGK	KTTVLYECCP	GYMRMEGMKG	CPAVMPIDHV
YGTLGIVGAT	TTQHYS DVSK	LREEIEGKGS	YTYFAPSNEA
WDNLDSDIRR	GLENNVNVEL	LNALHSHMVN	KRMLTKDLKH
GMVIPSMYNN	LGLFINHYPN	GVVTVNCARV	IHGNIATNG
VVHVIDRVLT	QIGTSIQDFI	EAEDELSSFR	AAAITSDLLE
SLGRDGHFTL	FAPTNEAF EK	LPRGVLERIM	GDKVASEALM
KYHILNTLQC	SEAITGGAVF	ETMEGNTIEI	GCEGDSISIN
GIKMVNKKDI	VTKNGVIHLI	DEVLI PDSAK	QVIELAGKQQ
TTFTDLVAQL	GLASSLKPDG	EYTL LAPVNN	AFSDDTL SMD
QRLLKLI LQN	HILKVKVGLS	DLYNGQILET	IGGKQLRVFV
YRTAICIENS	CMVRGSKQGR	NGA IHIFREI	IQPAEKSLHE
KLRQDKRFSI	FLS LLEAADL	KDLLTQPGDW	TLFAPTND AF
KGMTNEEREI	LIGDKNALQN	IILYHLTPGV	YIGKGFEPGV
TNILKTTQGS	KIYVKG VNET	LLVNELKSKE	SDIMTTNGVI
HVVDKLLYP A	DIPVGN DQLL	ELLNKLIK YI	QIKFVRG STF
KEIPMTVYTT	KIITKL VEPK	IKVIQGS LQP	IIKTEGP AMT
KIHIEGEPDF	RLIKEGETVT	EVIHGEPVIK	KYTKIIDGVP
VEITEKETRE	ERIITGPEIK	YTRISTGGGE	TEETLQKFLQ
KDTPAKKIQA	NKRVQGS		

#### Biological Activity

Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The ED<sub>50</sub> for this effect is 44.48 ng/mL, corresponding to a specific activity is 2.248×10<sup>4</sup> units/mg.

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

#### Endotoxin Level

<1 EU/μg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 500 μg/mL in ddH<sub>2</sub>O. For long term storage it is

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	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

Periostin, a multifunctional molecule, plays a pivotal role in cellular processes by inducing cell attachment and spreading, demonstrating its significance in cell adhesion dynamics. Moreover, Periostin contributes to the structural integrity of connective tissues by enhancing the incorporation of BMP1 into the fibronectin matrix, leading to the subsequent proteolytic activation of lysyl oxidase LOX. Structurally, Periostin exists as a homodimer, and functionally, it interacts with key partners including BMP1 and fibronectin. This intricate network of interactions underscores the diverse functions of Periostin in mediating cellular adhesion and contributing to the extracellular matrix architecture of connective tissues, highlighting its essential role in maintaining tissue integrity and function<sup>[1][2]</sup>.

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

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