# Human Periostin/OSF-2 Protein, Ultra Low Endotoxin

**Cat. No.** OSF-HM102-UL

## Description

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|---|---|
| **Source** | Recombinant Human Periostin/OSF-2 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Asn22-Gln836. |
| **Accession** | Q15063 |
| **Molecular Weight** | The protein has a predicted MW of 92.1 kDa. Due to glycosylation, the protein migrates to 93-100 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 0.01 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |

## Formulation and Storage

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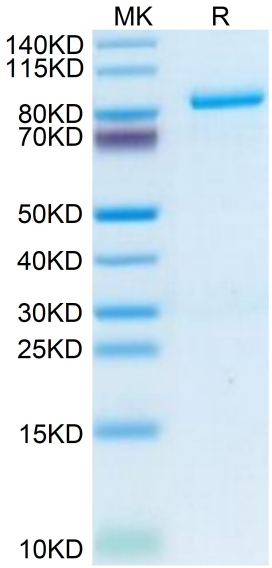
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Periostin is a matricellular protein that is expressed in several tissues during embryonic development; however, its expression in adults is mostly restricted to collagen-rich connective tissues. Periostin is expressed only briefly during kidney development, but it is not normally detected in the adult kidney. Recent evidence has revealed that periostin is aberrantly expressed in several forms of chronic kidney disease (CKD), and that its expression correlates with the degree of interstitial fibrosis and the decline in renal function.

## Assay Data

**Bis-Tris PAGE**




Human Periostin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**ELISA Data**

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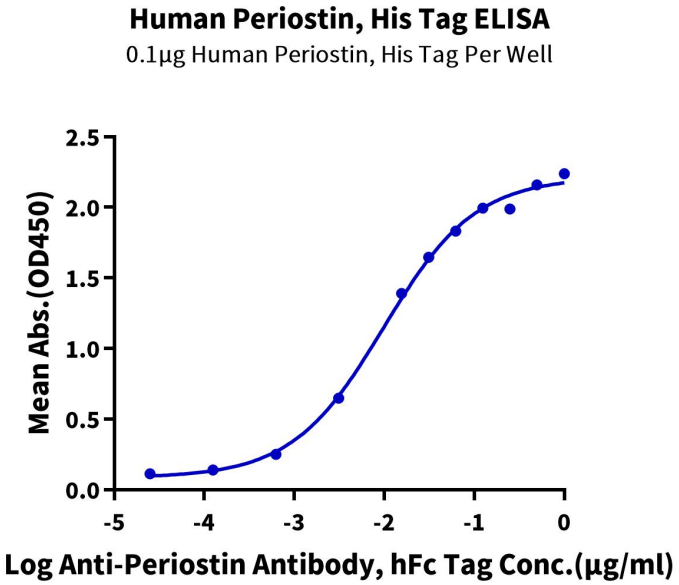
## Assay Data




Immobilized Human Periostin, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-Periostin Antibody, hFc Tag with the EC50 of 9.9ng/ml determined by ELISA.