

Human Periostin/OSF-2 Protein

Cat. No. OSF-HM102

Description

Source	Recombinant Human Periostin/OSF-2 Protein is expressed from Expi293 with His tag at the C-terminal. 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

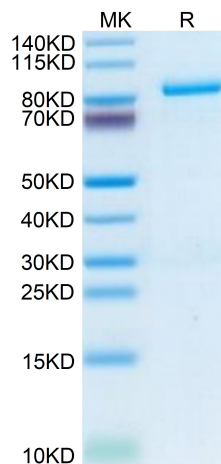
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

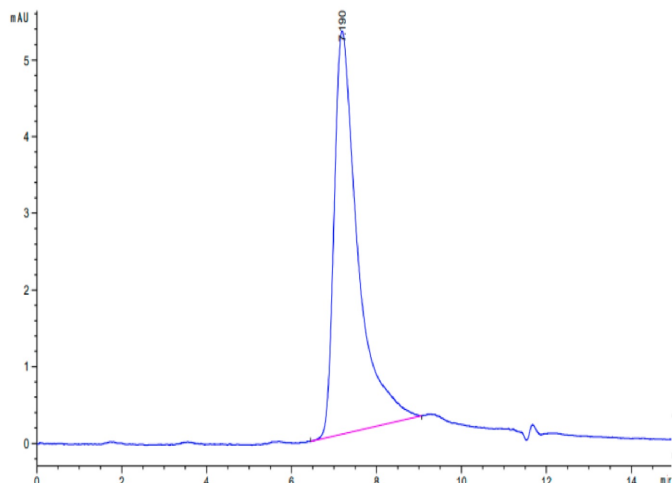
Tris-Bis PAGE



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

SEC-HPLC

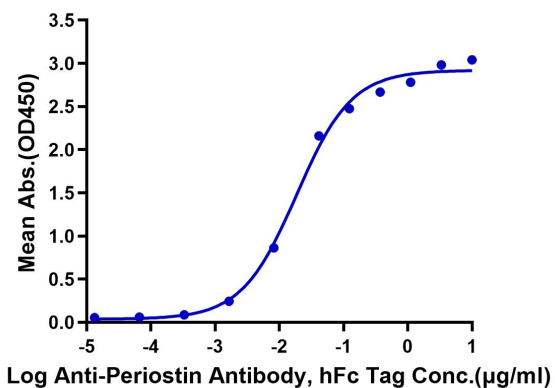
Assay Data



The purity of Human Periostin is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Periostin, His Tag ELISA
0.05µg Human Periostin, His Tag Per Well



Immobilized Human Periostin, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Periostin Antibody, hFc Tag with the EC50 of 18.5ng/ml determined by ELISA.