Data Sheet (Cat.No.TMPK-00973)

TargetMol

Periostin/OSF-2 Protein, Human, Recombinant (aa 22-836, His)

General Information

Synonyms:	Periostin;POSTN;Fasciclin I-like;TRIF52;OSF-2;PNRP11-412K4.1;PN;PDLPOSTN;OSF2
Protein Construction:	Asn22-Gln836
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q15063
Molecular Weight:	92.1 kDa (predicted). Due to glycosylation, the protein migrates to 93-100 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	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.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Wallace DP. Periostin in the Kidney. Adv Exp Med Biol. 2019;1132:99-112. doi: 10.1007/978-981-13-6657-4_1PMID: 31037629.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481