

Recombinant Human Periostin/PN/POSTN Protein

Catalog No.: RP01748 **Recombinant**

Sequence Information

Species Human **Gene ID** 10631 **Swiss Prot** Q15063

Tags
C-6His

Synonyms

PN; OSF2; OSF-2; PDLPOSTN;POSTN

Background

Periostin (POSTN), also known as OSF2 (osteoblast specific factor 2), is a heterofunctional secreted extracellular matrix (ECM) protein comprised of four fasciclin domains that promotes cellular adhesion and movement, as well as collagen fibrillogenesis. Postn is frequently overexpressed in various types of human cancers, stimulating metastatic growth by promoting cancer cell survival, invasion and angiogenesis, and can be a useful marker to predict the behavior of cancer.

Basic Information

Description

Recombinant Human Periostin/PN/POSTN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn22-Gln836) of human Periostin/PN/POSTN (Accession #NP_006466.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. Immobilized Recombinant Human Periostin/OSF-2 at 10 μ g/mL (100 μ L/well) induces >19% cell adhesion.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by SDS-PAGE.

Calculated MW

91.80 kDa

Observed MW

100-110 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

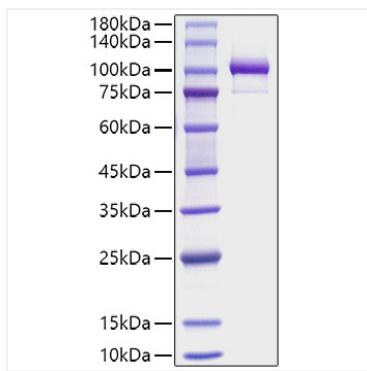
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Validation Data



Recombinant Human Periostin/PN/POSTN
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.