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Recombinant Mouse Periostin/PN/POSTN Protein

Catalog No.: RP01764 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	50706	Q62009-2

Tags
C-6His

Synonyms
PN; PLF; Osf2; OSF-2; A630052E07Rik□POSTN

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
88.45 kDa	90-100 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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 Mouse Periostin/PN/POSTN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn24-Gln811) of mouse Periostin/PN/POSTN (Accession #NP_056599.1) 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 μg/mL (100 μL/well) induces >18% cell adhesion.

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

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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.

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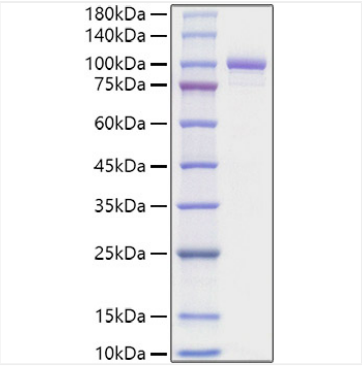
Validation Data



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

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