

Recombinant Human Periostin/OSF-2 Protein (His Tag)

Catalog Number: PKSH032880

Note: Centrifuge before opening to ensure complete recovery of vial contents.

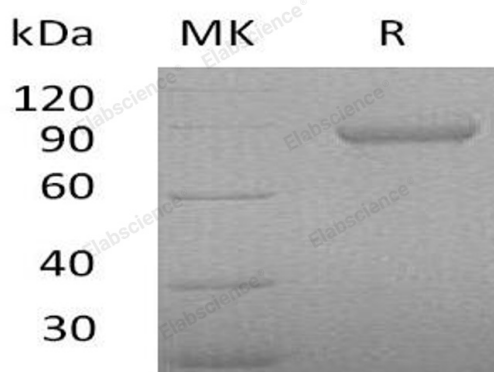
Description

| | |
|---------------|---|
| Species | Human |
| Source | HEK293 Cells-derived Human Periostin;OSF-2 protein Asn22-Gln779, with an C-terminal His |
| Calculated MW | 85.6 kDa |
| Observed MW | 85-90 kDa |
| Accession | Q15063-2 |
| Bio-activity | Not validated for activity |

Properties

| | |
|----------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Reconstitution | Please refer to the specific buffer information in the printed manual. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Osteoblast-Specific Factor OSF-2 (POSTN, Periostin, OSF-2) is a secreted, homodimeric protein that belongs to the periostin family of the FAS1 superfamily of molecules. Periostin is a disulfide linked 90kDa bone adhesion protein secreted by osteoblasts and osteoblast-like cell lines and the protein is an attachment agent for osteoblasts. It is a TGF-beta inducible molecule that serves as both an adhesion molecule and tumor suppressor. It is synthesized by smooth muscle cells, fibroblasts and osteoblasts, as well as in the periosteum and periodontal ligament. Periostin functions as a ligand for alpha-V/beta-3 and alpha-V/beta-5 integrins to support adhesion and migration of epithelial cells.

For Research Use Only