For Research Use Only

Recombinant Human SPARC protein (His Tag)

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Catalog Number: Eg1169

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human SPARC protein Ala18-Ile303 (Accession# P09486) with a His tag at the C-terminus.

GeneID:
6678

Accession:
P09486

Predicted Molecular Mass:
34.3 kDa

SDS-PAGE:
37-44 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

SPARC, also known as ON (Osteonectin) or BM-40 (Basement-membrane protein 40), is an extracellular glycoprotein, belongs to a group of matricellular proteins defined as secreted components that do not contribute directly to the formation of structural elements but serve to modulate cell-matrix interactions and cellular functions. SPARC is expressed at high levels in bone tissue, is distributed widely in many other tissues and cell types, and is associated generally with tissues undergoing morphogenesis, remodeling and wound repair. It elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix. Altered expression of SPARC has been reported in a variety of cancers, which include breast, ovarian, colorectal, and pancreatic cancer as well as melanoma and glioblastomas.

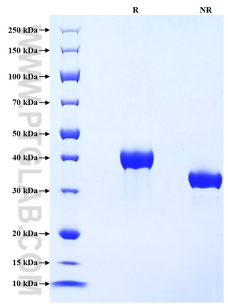
References

1. P Bornstein, et al. (1995) J Cell Biol. 130(3):503-6.
2. Paul Bornstein, et al. (2002) Curr Opin Cell Biol. 14(5):608-16.
3. Q Yan, et al. (1999) J Histochem Cytochem. 47(12):1495-506.
4. A D Bradshaw, et al. (2003) Proc Natl Acad Sci U S A. 100(10):6045-50.
5. Isabella T Tai, et al. (2008) Drug Resist Updat. 11(6):231-46.

Synonyms

Basement membrane protein 40, Basement-membrane protein 40, BM 40, BM-40, ON

Selected Validation Data



Purity of Recombinant Human SPARC was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.