



Recombinant Protein Technical Manual

Recombinant Human SPOCK1/Testican 1 Protein (aa 21-429, His Tag)

RPES1655

Product Data:

Product SKU: RPES1655

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q08629

Protein Information:

Molecular Mass: 48.4 kDa

AP Molecular Mass: 53 kDa

Tag: C-His

Bio-activity:

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: SPOCK;TESTICAN;TIC1

Immunogen Information:

Sequence: Met 1-Trp439

Background:

Osteonectin, also known as SPOCK1, is an extracellular heparan/chondroitin sulfate proteoglycan. Members of this family are known as testicans, also called SPOCKs. They are characterized structurally by an N-terminal testican-specific domain, a follistatin-like region, a calcium-binding domain, a thyroglobulin-like domain, and an acidic C-terminal domain with two putative glycosaminoglycan attachment sites. SPOCKs are enriched in brain and have been shown to regulate neuronal attachment and outgrowth. They contain inhibitory regions in several domains targeted to different classes of protease, and in some cases may act as protease inhibitors. Osteonectin contains 1 Kazal-like domain and 1 thyroglobulin type domain. Up to now, little is known about osteonectin's function. It may play a role in cell-cell and cell-matrix interactions. Osteonectin also may contribute to various neuronal mechanisms in the central nervous system.