

## PRODUCT INFORMATION SUMMARY

### Human SPARC (Osteonectin)

Purified Factor	Product Number	HC511120B	50.0 ug
	Product Number	HC511120A	10.0 ug

#### DESCRIPTION:

Human SPARC, also known as Osteonectin and Secreted Protein Acidic and Rich in Cysteine, is a collagen-binding glycoprotein expressed in tissues undergoing repair and morphogenesis. SPARC and related proteins bind to extracellular matrix proteins. These affect cell adhesion, angiogenesis, and cell proliferation functions. SPARC consists of three distinct domains: Cysteine-rich domain; N-terminal acidic region; and region containing 2 EF-hands that bind calcium with high affinity. Human SPARC is expressed as 43.7 kDa glycoprotein with 286 aa. residues.

**SOURCE:** CHO cells  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug SPARC  
Sterile filtered and lyophilized.  
Additive-free.

#### BIOLOGICAL ACTIVITY:

Measured ability to activate (alkaline phosphatase activity) in cell line MC3T3 in concentration range of 0.40 - 0.75 ug/mL.

#### HANDLING AND STORAGE:

Purified SPARC factor is provided lyophilized with no additives. Store lyophilized, at -20 ° C. Quick-spin and reconstitute with distilled (or sterile) water to approx. 100.0 ug/mL, then further dilute in buffer. Store small aliquots at -20 ° C, **with addition of 0.1% BSA**, for long-term storage- up to 3 months, at high concentration.

**Before opening vial**, it is recommended to microcentrifuge vial for 30 seconds to spin-down any lyophilized material that may adhere to top of vial. The small amounts of protein may adhere to the vial as a very thin coat of lyophilized material, and may be difficult to see as a pellet.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**