

## PRODUCT INFORMATION SUMMARY

### Human Osteopontin

|                 |                |           |         |
|-----------------|----------------|-----------|---------|
| Purified Factor | Product Number | HC411214B | 50.0 ug |
|                 |                | HC411214A | 10.0 ug |

#### DESCRIPTION:

Human Osteopontin is a cytokine factor expressed in osteoblasts, odontoblasts, placenta, inner ear, brain and other tissues. This factor is a ligand to  $\alpha$ -v $\beta$ 3 integrin and acts as a component of extracellular mineralized matrix. Initially produced as a 298 aa. protein, it is subject to modifications and proteolytic cleavages to smaller fragments. Osteopontin can also function to inhibit IL-10 production and stimulate production of IFN Gamma and IL-12. Human Osteopontin is a 298 aa protein, and glycosylated, migrates on gel electrophoresis as 60 - 65 kDa bands under reducing conditions.

**SOURCE:** 293 cells  
Purity > 97% by HPLC analysis  
Endotoxin < 0.1 ng per ug Osteopontin  
Sterile filtered and lyophilized, additive-free.

#### BIOLOGICAL ACTIVITY:

Fully biologically active when compared to standards, activity determined by ability to chemoattract human monocytes in range of 10.0 - 100.0 ng/mL.

#### HANDLING AND STORAGE:

Purified Osteopontin factor is provided sterile-filtered and lyophilized. with no additives. Store lyophilized, at -20C. Upon reconstitution with 50 uL sterile of distilled water, further dilute in PBS or other buffered solutions. 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**