

# ANTIGENIX AMERICA, INC.

## 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.

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

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