

REV: 1/13

## ANTIGENIX AMERICA, INC.

### PRODUCT INFORMATION SUMMARY

#### Human Semaphorin 3A

Purified Factor	Product Number	HC51242B	25.0 ug
		HC51242A	5.0 ug

#### DESCRIPTION:

Human Semaphorin is one of a group of transmembrane cell signaling proteins, with 8 classifications containing 500 aa conserved SEMA domains at amino terminus. Different classes are found in vertebrates only or both vertebrates and invertebrates. Semaphorins act during neuronal development in axon growth cone guidance. Semaphorin 3A (also known as SEMA3A) inhibits axon growth via receptors Plexin-A and Neuropilin-1, and axon repellent.

This recombinant human Semaphorin 3A contains 751 aa length containing the SEMA domain, C2-like domain and basic C-terminus domain.

**SOURCE:** CHO cells  
Purity > 95% by HPLC analysis  
Endotoxin < 0.1 ng per ug Semaphorin

**BIOLOGICAL ACTIVITY:** Determined by ability to bind recombinant Rat Neuropilin-1 Fc Chimera in functional ELISA.

#### HANDLING AND STORAGE:

Purified Human Semaphorin 3A is provided steril-filtered and lyophilized. Store lyophilized, at -20 ° C. Upon **reconstitution with distilled or sterile water** to concentration of approx. 100.0 ug/mL, then dilute in PBS or other buffered solutions with 0.1% BSA. Store small aliquots, **with addition of 0.1% BSA**, at -20° C for long-term storage -up to 3 months, at high concentration.

**Before opening vial:** we recommend microcentrifuge for 30 seconds, to spin-down any lyophilized material that may adhere to sides of vial. These small amounts of lyophilized protein may exist as a thin film, and be difficult to see in the vial.

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