

# ANTIGENIX AMERICA, INC.

## PRODUCT INFORMATION SUMMARY

### Human R-Spondin-1

Purified Factor	Product Number	HC51245B	20.0 ug
		HC51245A	5.0 ug

#### DESCRIPTION:

Human R-Spondin-1 ( Roof-plate-specific Spondin) is part of a family of Wnt-modulators ( 1-4) containing thrombospondin structural domains. Expressed in developing central nerous system and in ovary, testis adrenal and thyroid glands. R-Spondin -1 interacts LRP6 receptor complex to stimulate Wnt/beta catenin signaling pathways. Human recombinant R-Spondin-1 is a 26 kDa protein with 243 amino acid residues, and due to glycosylation- it appears at approx. MW of 40.0 kDa on SDS PAGE under reducing condiotions.

**SOURCE:** CHO cells  
Purity > 95% by HPLC analysis  
Endotoxin < 0.1 ng per ug R-Spondin  
Sterile filtered and lyophilized, additive-free.

#### BIOLOGICAL ACTIVITY:

Fully biologically actice when compared to standards, activity determined by enhancement of BMP-2 mediated differentaltion of MC3T3-E1 cells ( 50% effect @ 3.0 ug/mL) .

#### HANDLING AND STORAGE:

Purified R-Spondin-1 factor is provided lyophilized with no additives. Store lyophilized, at -20° C. Upon reconstitution with 50-100 uL distilled ( or sterile) water, further dilute in PBS or other buffered solutions. Store small aliquots at -20° C for long-term storage-up to 3 months, **with addition of 0.1% BSA,** 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**

[WWW.ANTIGENIX.COM](http://WWW.ANTIGENIX.COM)