

## Active Recombinant Human RSPO3 Protein

Cat. No. RSPO3-442H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RSPO3 was expressed in CHO cells.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	This gene belongs to the R-spondin family. The encoded protein plays a role in the regulation of Wnt (wingless-type MMTV integration site family)/beta-catenin and Wnt/planar cell polarity (PCP) signaling pathways, which are involved in development, cell growth and disease pathogenesis. Genome-wide association studies suggest a correlation of this gene with bone mineral density and risk of fracture. This gene may be involved in tumor development.
<b>Form</b>	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Bio-activity</b>	R-Spondin-3 enhances BMP-2 mediated differentiation of MC3T3-E1 cells.
<b>Molecular Mass</b>	26.9 kDa
<b>AA Sequence</b>	MHPNVSQGCQGGCATCSDYNGCLSCKPRLFFALERIGMKQIGVCLSSCPGYYGT RYPDINKCTKCKADCDCFNKNFCTKCKSGFYHLGLGKCLDNCPEGLEANNHTMECV SIVHCEVSEWNPWSPCTKKGKTCGFKRGTTETRVREIIQHPSAKGNLCPPTNETRKC TVQRKKCQKGERGKKGRERKRKPKNGESKEAIPDSKSLESSKEIPEQRENKQQQ KKRKVQDKQKSVSVSTVH

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<b>Endotoxin</b>	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
<b>Purity</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	Resuspend the protein in the desired concentration in proper buffer

## GENE INFORMATION

<b>Gene Name</b>	RSPO3 R-spondin 3 [ Homo sapiens ]
<b>Official Symbol</b>	RSPO3
<b>Synonyms</b>	RSPO3; R-spondin 3; R spondin 3 homolog (Xenopus laevis) , thrombospondin, type I, domain containing 2 , THSD2; R-spondin-3; FLJ14440; R-spondin 3 homolog; roof plate-specific spondin-3; protein with TSP type-1 repeat; thrombospondin, type I, domain containing 2; thrombospondin type-1 domain-containing protein 2; PWTSR; THSD2; CRISTIN1;
<b>Gene ID</b>	84870
<b>mRNA Refseq</b>	NM_032784
<b>Protein Refseq</b>	NP_116173
<b>MIM</b>	610574
<b>UniProt ID</b>	Q9BXY4

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