

Active Recombinant Human RSPO1 protein

Cat. No. RSPO1-8392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RSPO1 was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	243 amino acid
Description	R-Spondin-1 (Rspo-1) belongs to the (Rspo) family of Wnt modulators. Currently, the family consists of four structurally related secreted ligands (Rspo 1-4), all containing the furin-like and thrombospondin structural domains. Rspo-1 is expressed in certain areas of the developing central nervous system, as well as in the adrenal glands, ovary, testis, thyroid, and trachea. Rspo can interact with the Frizzled/LRP6 receptor complex in a manner that stimulates the Wnt/beta-catenin signaling pathway.
Bio-activity	R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The expected ED50 is 1.0-3.0 ug/ml.
Molecular Mass	R-Spondin-1 is a 26.7 kDa protein consisting of 243 amino acid residues. Due to glycosylation, R-Spondin-1 migrates at an apparent molecular weight of approximately 40.0 kDa by SDS-PAGE analysis under reducing conditions.
AA Sequence	SRGIKGRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR

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GSEERTRRVL HAPVGDHAAC SDKETRRCT VRRVPCPEGQ KRRKGGQGRR
ENANRNLARK ESKEAGAGSR RRGQQQQQQ QGTVGPLTSA GPA

Purity Greater than 95% by SDS-PAGE gel and HPLC analyses.

GENE INFORMATION

Gene Name [RSPO1 R-spondin 1 \[Homo sapiens \]](#)

Official Symbol [RSPO1](#)

Synonyms RSPO1; R-spondin 1; R spondin homolog (Xenopus laevis); R-spondin-1; FLJ40906; RSPONDIN; R-spondin homolog; roof plate-specific spondin-1; RSPO; CRISTIN3; RP11-566C13.1;

Gene ID [284654](#)

mRNA Refseq [NM_001038633](#)

Protein Refseq [NP_001033722](#)

MIM [609595](#)

UniProt ID [Q2MKA7](#)

Chromosome Location 1p34.2

Pathway Wnt signaling network, organism-specific biosystem;

Function heparin binding; protein binding; receptor binding;

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