

## 32-20574: Recombinant Human R-Spondin-1(Discontinued)

**Reactivity :** Human, Mouse  
**Alternative Name :** Roof plate-specific spondin-1, RSPO1

### Description

#### Source:CHO cells

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. Recombinant Human 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.

### Product Info

**Amount :** 5 µg / 20 µg  
**Purification :** Purity: >= 95% by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** SRGIKGRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD  
MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCPACP EGSSAANGTM ECSSPAQCEM  
SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRT VRRVPCPEGQ  
KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRRKQQQQQ QGTVGPLTSA GPA

### Application Note

Assay #1: R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The expected ED<sub>50</sub> is 1.0-3.0 µg/ml. Assay #2: Measured by its ability to induce Topflash reporter activity in HEK293 TCF/LEF Luc reporter cells. The ED<sub>50</sub> for this effect is typically 0.6-1.0 µg/ml in the presence of 50