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Product datasheet for AR31177PU-N

RSPO1 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	RSPO1 human recombinant protein, 20 µg
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	SRGIKGKRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRKGQQQQQQ QGTVGPLTSA GPA
Predicted MW:	26.3 kDa
Purity:	>95% by SDS-PAGE and HPLC
Buffer:	Presentation State: Purified State: Lyophilized purified protein from 10 mM Sodium Phosphate, pH 7, 5 + 150 mM NaCl Stabilizer: None
Bioactivity:	R-spondin-1 enhances BMP-2 mediated differentiation of MC3T3-E1 cells. The expected ED50 is 1.0-3.0 ug/ml.
Reconstitution Method:	Restore in a Water to ac concentration of 0.1-1.0 mg/ml
Preparation:	Lyophilized purified protein
Protein Description:	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.
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001033722
Locus ID:	284654
UniProt ID:	Q2MKA7

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Cytogenetics:	1p34.3
Synonyms:	CRISTIN3; RSPO
Summary:	This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
Protein Families:	Secreted Protein