

Product datasheet for **TP723385**

RSPO1 (NM_001038633) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human R-spondin homolog (<i>Xenopus laevis</i>) (RSPO1).
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	SRGIKGRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRGKQQQQQQ QGTVGPLTSA GPA
Tag:	Tag Free
Predicted MW:	26.7 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	R-spondin-1 enhances BMP-2 mediated differentiation of MC3T3-E1 cells. The expected ED50 is 1.0-3.0 ug/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_001033722
Locus ID:	284654
UniProt ID:	Q2MKA7
RefSeq Size:	2995
Cytogenetics:	1p34.3
RefSeq ORF:	789
Synonyms:	CRISTIN3; RSPO



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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

Product images: