

R-spondin 1/RSP01, Human, Recombinant

货号：PCK214

产品信息

别名	RSPO1, Roof plate-specific spondin-1
物种	Human
表达宿主	HEK293
序列信息	A DNA sequence encoding Human R-Spondin 1 Protein (#Q2MKA7) (Ser21 - Ala263) was expressed with polyhistidine-SUMO tag at the N-terminus.
检索号	Q2MKA7
分子量	42.43 kDa
标签	His-SUMO tag at the N-terminus
生物活性	R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The ED50 for this effect is 1-3 µg/mL.

产品特性

纯度	>95% as determined by SDS-PAGE. Ni-NTA chromatography
内毒素	<1 EU per 1 µg of the protein by the LAL method.
保存	Store at -5~-20°C or -80°C for 6 months. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
运输	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
制剂	Liquid (1X PBS, pH 7.4)



背景介绍

R-spondin 1 (RSPO1, Roof plate-specific Spondin 1) is a cysteine-rich secreted glycoprotein that belongs to the R-Spondin family. Structurally, R-spondin 1 harbors an N-terminal signal peptide, two cysteine-rich furin-like (FU1-FU2) domains, a thrombospondin (TSP) domain, and a basic amino acid-rich (BR) C-terminal domain. R-spondin 1 acts as a ligand for the leucine-rich repeat-containing G-protein coupled receptor (LGR) family (LGR4/5/6), subsequent clearing negative regulators ZNRF3/RNF43 from the membrane, leading to the availability of Wnt receptor and activating Wnt/ β -catenin signaling. The signal cascade is essential for regulating stem cell proliferation, embryonic development, and tissue homeostasis.

SDS-PAGE

