普诺赛[®] Procell system

R-spondin 1/RSPO1, Human, Recombinant

Cat. No.: GPCK214

产品信息

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.

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检索号 Q2MKA7

标签 His-SUMO tag at the N-terminus

分子量 42.43 kDa **有效期** 12 months

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

内毒素 (EU/μg) < 0.1

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.

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运输 The product is shipped on dry ice/polar packs.

Upon receipt, store it immediately at the temperature listed below.

制剂 Liquid (1 × 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-FU 2) 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.



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