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32-20580: Recombinant Human R-Spondin-3(Discontinued)

Reactivity : Mouse
Alternative Name : Roof plate-specific spondin-3, RSPO3, PWTSR, THSD2

Description

Source:CHO cells
The R-Spondin (Rspo) proteins belong to the Rspo family of Wnt modulators. Currently, the family consists of four structurally-related, secreted ligands (Rspo 1-4), all containing furin-like and thrombospondin structural domains. The Rspo proteins can interact with the Frizzled/LRP6 receptor complex in a manner that causes the stabilization, and resulting accumulation, of the intracellular signaling protein, Beta -catenin. This activity effectively activates and increases the subsequent nuclear signaling of Beta -catenin. R-Spondin can also bind to the previously discovered G-protein coupled receptors, LGR-4 and LGR-5. Rspo/Beta -catenin signaling can act as an inducer of the transformed phenotype, and can also regulate the proliferation and differentiation of certain stem cell populations.Â Recombinant Human R-Spondin-3 is a 26.9 kDa protein consisting of 240 amino acid residues.Â Due to glycosylation, R-Spondin-3 migrates at an apparent molecular weight of approximately 37.0 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 : MHPNVSQGCQ GGCATCSDYN GCLSCKPRLF FALERIGMKQ IGVCLSSCPS GYYGTRYPDI NKCTKCKADC DTCFNKNFCT KCKSGFYLHL GKCLDNCPEG LEANNHTMEC VSIVHCEVSE WNPWSPCTKK GKTCGFKRGT ETRVREIIQH PSAKGNLCPP TNETRKCTVQ RKKCQKGERG KKGRERKRKK PNKGESKEAI PDSKSLESSK EIPEQRENKQ QQKKRKVQDK QKSVSVSTVH

Application Note

R-Spondin-3 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The expectedÃ□Â ED_{50}Ã□Â for this effect is 0.8 Ã□â□□ 2.0 Ã□Âµg/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.