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32-20574: Recombinant Human R-Spondin-1(Discontinued)

Reactivity : Human, Mouse
Alternative Name : Roof plate-specific spondin-1, RSPO1

Description

Source:CHO cells
R-Spondin-1 (Rspo-1) belongs to the (Rspo) family of Wnt modulators. Currently, the family consists of four structurally related secreted ligands (Rspo 1-4), all containing the furin-like and thrombospondin structural domains. Rspo-1 is expressed in certain areas of the developing central nervous system, as well as in the adrenal glands, ovary, testis, thyroid, and trachea. Rspo can interact with the Frizzled/LRP6 receptor complex in a manner that stimulates the Wnt/Beta -catenin signaling pathway. Recombinant Human R-Spondin-1 is a 26.7 kDa protein consisting of 243 amino acid residues.Â Due to glycosylation, R-Spondin-1 migrates at an apparent molecular weight of approximately 40.0 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 : 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

Application Note

Assay #1:ÃÂ R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The expectedÃÂ ED_{50}ÃÂ is 1.0-3.0 ÃÂµg/ml.ÃÂ Assay #2:Measured by its ability to induce Topflash reporter activity in HEk293 TCF/LEF Luc reporter cells. TheÃÂ ED_{50}ÃÂ for this effect is typically 0.6-1.0 ÃÂµg/ml in the presence of 50

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