

R-Spondin-1, human recombinant protein

Roof plate-specific Spondin, Rspo1 Catalog # PBV10819r

Specification

R-Spondin-1, human recombinant protein - Product info

Primary Accession <u>Q2MKA7</u>

Calculated MW 40.0 kDa KDa

R-Spondin-1, human recombinant protein - Additional Info

Gene ID 284654
Gene Symbol RSP01

Other Names

Roof plate-specific Spondin, Rspo1

Gene Source Human Source CHO Cells

Assay&Purity SDS-PAGE; ≥95%

Assay2&Purity2 HPLC; Recombinant Yes

Sequence 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

Target/Specificity

R-Spondin-1

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10mM Sodium Phosphate, pH 7.5 and 150 mM NaCl.

R-Spondin-1, human recombinant protein - Protocols



Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

R-Spondin-1, human recombinant protein - Images

R-Spondin-1, human recombinant protein - Background

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 furin-like and thrombospondin structural domains. Rspo-1 is expressed in certain areas of the developing central nervous system, as well as in 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. Due to glycosylation, R-Spondin-1 migrates at an apparent molecular weight of approximately 40.0 kDa by SDS PAGE analysis under reducing conditions.

R-Spondin-1, human recombinant protein - References

Kim K.-A.,et al.Science 309:1256-1259(2005). Parma P.,et al.Nat. Genet. 38:1304-1309(2006). Ota T.,et al.Nat. Genet. 36:40-45(2004). Gregory S.G.,et al.Nature 441:315-321(2006). Hao H.X.,et al.Nature 485:195-200(2012).