

R-Spondin-1 Human Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

| | | |
|--|------------------|----------|
| Type: Recombinant | Cat. No.: | |
| Source: Chinese Hamster Ovary Cells (CHO) | RBG10280005 | (5 µg) |
| Species: Human | RBG10280020 | (20 µg) |
| Other names: Roof plate-specific Spondin, Rspo1 | RBG10280100 | (100 µg) |

Description

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. Due to glycosylation, R-Spondin-1 migrates at an apparent molecular weight of approximately 40.0 kDa by SDS-PAGE analysis under reducing conditions.

Research topic

Neural tissue markers, Oncology

Amino Acid Sequence

SRGIKGRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE
HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL
HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGR ENANRNLARK ESKEAGAGSR RRKGQQQQQ QGTVGPLTSA GPA

Source

Chinese Hamster Ovary Cells (CHO)

Purity

95%

Biological Activity

R-spondin-1 enhances BMP-2 mediated differentiation of MC3T3-E1 cells. The expected ED₅₀ is 1.0-3.0 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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.

Storage, Stability/Shelf Life

| | | | | |
|--|-------------------------------|-------------------------------|---|---|
| HEADQUARTERS: | | | | |
| BioVendor Laboratorní medicína, a.s. | Karasek 1767/1 | 621 00 Brno CZECH REPUBLIC | Phone: +420-549-124-185 Fax: +420-549-211-460 | E-mail: info@biovendor.com sales@biovendor.com Web: www.biovendor.com |
| AUSTRIA: BioVendor GesmbH | Nußdorfer Straße 20/10 | 1090 Vienna AUSTRIA | Phone: +43-1-89090-25 Fax: +43-1-89090-2515 | E-mail: infoAustria@biovendor.com |
| GERMANY, SWITZERLAND: BioVendor GmbH | Otto-Hahn-Straße 16 | 34123 Kassel GERMANY | Phone: +49-6221-433-9100 Fax: +49-6221-433-9111 | E-mail: infoEU@biovendor.com |
| USA, CANADA AND MEXICO: BioVendor LLC | 128 Bingham Rd. Suite 1300 | Asheville, NC 28806 USA | Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251 | E-mail: infoUSA@biovendor.com |