

RSPO2 (L186P) Recombinant Protein | RSPO2 recombinant protein

Human RSPO2 (L186P) Protein (Fc Tag)

CATALOG #
AAA258273

HOST
HEK293 Cells

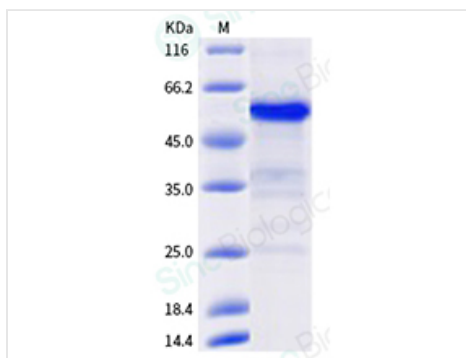
PRODUCT SYNONYMS

RSPO2 (L186P); Human RSPO2 (L186P) Protein (Fc Tag); RSPO2 Protein; Human; Recombinant (hFc Tag); R-spondin 2; CRISTIN2 Protein; RSPO2 recombinant protein

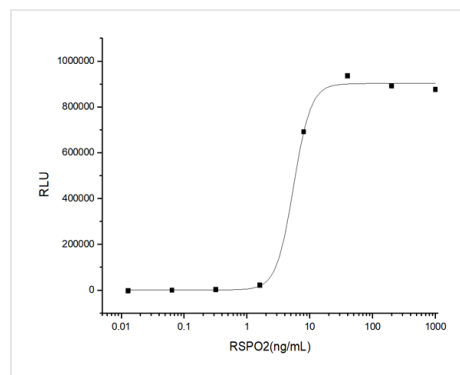
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile Histidine, Arginine, 120mM NaCl, 0.02% Tween 80, 5% sucrose, pH6.0 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Gly205
Species	Human
Endotoxin	<1.0 EU per ug protein as determined by the LAL method
Predicted N Terminal	Gln 22
Tag	C-human IgG1-Fc
Activity	Measured by its ability to induce activation of betacatenin response in a Topflash Luciferase assay using HEK293T human embryonic kidney cells. The ED50 for this effect is typically 2-12ng/mL in the presence of 5ng/mL recombinant mouse Wnt3a.
Protein Construction	A DNA sequence encoding the Human RSPO2 (Q6UXX9-1, with mutations L186P)(Met1-Gly205) was expressed with the Fc region of human IgG1 at the C-terminus.
Preparation and Storage	Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

Measured by its ability to induce activation of betacatenin response in a Topflash Luciferase assay using HEK293T human embryonic kidney cells. The ED50 for this effect is typically 2-12ng/mL in the presence of 5ng/mL recombinant mouse Wnt3a.

ADDITIONAL INFORMATION

Related Product Information for RSPO2 recombinant protein	Background: R-spondin-2, also known as RSPO2, synergizes with Wnt to activate beta-catenin. RSPO2 is secreted proteins that regulate beta-catenin signaling. Activator of the beta-catenin signaling cascade leads to TCF-dependent gene activation. Action both in the canonical Wnt/beta- catenin-dependent pathway, possibly via a direct interaction with Wnt proteins, and in a Wnt-independent beta catenin pathway through a receptor signaling pathway that may not use frizzled/LRP receptors. Probably also acts as a ligand for frizzled and LRP receptors. The encoding gene Rspo2 was identified as a novel common integration site for the mouse mammary tumor virus in viral induced mouse mammary tumors. Rspo2 and Rspo2/Wnt1 tumors contained many spindle cells, consistent with an epithelial-mesenchymal transformation phenotype. When Rspo2 and Rspo2/Wnt1 tumor cells were transferred into naive mice, they exhibited greater metastatic activity than cells derived from Wnt1 tumors.
References	Cadieu E, et al. (2009) Coat Variation in the Domestic Dog Is Governed by Variants in Three Genes. Science. 326: 150-153. Kazanskaya O, et al. (2004) R-Spondin2 is a secreted activator of Wnt/beta-catenin signaling and is required for Xenopus myogenesis. Dev Cell. 7(4): 525-34. Parker HG, et al. (2010) An insertion in the RSPO2 gene correlates with improper coat in the Portuguese water dog. J Hered. 101(5):612-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	222446611
NCBI GeneID	340419
NCBI Accession #	NP_848660.3
NCBI GenBank Nucleotide #	NM_178565.4
UniProt Accession #	Q6UXX9; Q4G0U4; Q8N6X6; B3KVP0
Molecular Weight	22.0kD
NCBI Official Full Name	R-spondin-2 isoform 1
NCBI Official Synonym Full Names	R-spondin 2
NCBI Official Symbol	RSPO2
NCBI Official Synonym Symbols	CRISTIN2
NCBI Protein Information	R-spondin-2; R-spondin 2 homolog; roof plate-specific spondin-2
UniProt Protein Name	R-spondin-2
UniProt Gene Name	RSPO2
UniProt Synonym Gene Names	hRspo2
UniProt Entry Name	RSPO2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/rspo2-recombinant-protein-hek293-cells/258273>