R-Spondin-2 (rspo2) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	R-spondin-2 (rspo2), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis R-spondin-2 (rspo2)
Product Gene Name	rspo2 recombinant protein
Product Synonym Gene Name	rspo2
Sequence	QASRWRRSKR ASYGTNPICK GCLSCSKDNG CLRCQPKLFF FLRREGMRQY GECLQSCPPG YYGVRGPDMN RCSRCRIENC DSCFSRDFCI KCKSGFYSLK GQCFEECPEG FAPLDDTMVC VDGCEVGPWS EWGTCSRNNR TCGFKWGLET RTRQIVKKPA KDTIPCPTIA ESRRCKMAIR HCPGGKRTTK KKDKRNKKKK KKLLERAQEQ HSVVLATDRS SQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	27,879 Da
Sequence Positions	22-243, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5UE90
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rspo2 recombinant protein	MBS1340314 is a recombinant protein targeting rspo2. Also known as Recombinant Xenopus laevis R-spondin-2 (rspo2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rspo2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for rspo2. It may not necessarily be applicable to this product.

NCBI GI #	148233221
NCBI GeneID	496383
NCBI Accession #	NP_001088999.1
UniProt Primary Accession #	Q5UE90
UniProt Related Accession #	Q5UE90

GenBank Nucleotide #	NM_001095530.1
NCBI Official Full Name	R-spondin-2
NCBI Official Synonym Full Names	R-spondin 2 L homeolog
NCBI Official Symbol	rspo2.L
NCBI Official Synonym Symbols	rspo2; CRISTIN2
UniProt Protein Name	R-spondin-2
UniProt Synonym Protein Names	Roof plate-specific spondin-2; XRspo2
Protein Family	R-spondin
UniProt Gene Name	rspo2
NCBI Protein Information	R-spondin-2
UniProt Comments for rspo2	Activator of the canonical Wnt signaling pathway by acting as a ligand for lgr4-6 receptors. Upon binding to lgr4-6 (lgr4, lgr5 or lgr6), lgr4-6 associate with phosphorylated lrp6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. Acts both in the canonical Wnt/beta-catenin-dependent pathway and in non-canonical Wnt signaling pathway (). Activates neural markers and promotes muscle formation. Overexpression blocks activin, nodal and BMP4 signaling, suggesting that it may negatively regulate the TGF-beta pathway.
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