REST Corepressor 1 (rcor1) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	REST corepressor 1 (rcor1), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis REST corepressor 1 (rcor1)
Product Gene Name	rcor1 recombinant protein
Product Synonym Gene Name	rcor1
Sequence	MIEKGAEISG KRRGRNNAAN SKSLGTNVNG SNSWEEGSSS SSSDDEPGGG GMRVGLQYQA VVPEFDQEVA KNCQERENLG MLVWSPNQNI SEAKLDEYIS VAKEKHGYNM EQALGMLFWH KHNIEKSLAD LLNFTPFPDE WTVEDRVLFE QAFSFHGKTF HRIQQMLPDK SIASLVKFYY SWKKTRSKTS VMDRHARKQK REREGSGDEI EETNGANPVD IEIEQPKEAK KEVPKNDTVP HIKKEKHPSQ AKNRAKRKPP NGMFLSQEDV EAVSANANAA TTVLRQLDME LVSIKRQIQN IKQTNSAFKE KLQGGIEDYR IQEVSQKFNA RWTTEEQLLA VQAIRMYGRD FQAISDVIGN KSVVQVKNFF VNYRRRFNID QVLQEWEAEH GKTEENGDCT EKAVKLPETA IKMSDEEEEA SLLDITYPSA S
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	49,022 Da
Sequence Positions	1-431, 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 Q90WN5
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rcor1 recombinant protein	MBS1331018 is a recombinant protein targeting rcor1. Also known as Recombinant Xenopus laevis REST corepressor 1 (rcor1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rcor1 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 rcor1. It may not necessarily be applicable to this product.

NCBI GI #	148233554
NCBI GeneID	398247
NCBI Accession #	NP_001082141.1
UniProt Primary Accession #	Q90WN5

UniProt Related Accession #	Q90WN5
GenBank Nucleotide #	NM_001088672.1
NCBI Official Full Name	REST corepressor 1
NCBI Official Synonym Full Names	REST corepressor 1 L homeolog
NCBI Official Symbol	rcor1.L
NCBI Official Synonym Symbols	rcor1; xcoREST
UniProt Protein Name	REST corepressor 1
UniProt Synonym Protein Names	Protein CoREST; xCoREST
Protein Family	REST corepressor
UniProt Gene Name	rcor1
UniProt Synonym Gene Names	corest; xCoREST
NCBI Protein Information	REST corepressor 1
UniProt Comments for rcor1	Essential component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it serves as a molecular beacon for the recruitment of molecular machinery that imposes silencing across a chromosomal interval. Plays a central role in demethylation of Lys-4 of histone H3 by promoting demethylase activity of KDM1A on core histones and nucleosomal substrates ().
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