REST Corepressor 1 (RCOR1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	REST corepressor 1 (Rcor1), Recombinant Protein
Full Product Name	Recombinant Mouse REST corepressor 1 (Rcor1)
Product Gene Name	Rcor1 recombinant protein
Product Synonym Gene Name	Rcor1
Sequence	MVEKGPEVSG KRRGRNTAAS AASAAASAAS AAASAAASAG TXSASAAAAA SAAAXPNNGQ NKSLAAAAPN GNSGSNSWEE GSSGSSSDEE HGGGGMRVGP QYQAAVPDFD PAKLARRSQE RDNLGMLVWS PNQSLSEAKL DEYIAIAKEK HGYNMEQALG MLFWHKHNIE KSLADLPNFT PFPDEWTVED KVLFEQAFSF HGKTFHRIQQ MLPDKSIASL VKFYYSWKKT RTKTSVMDRH ARKQKREREE SEDELEETNG SNPVDIEIDP NKESKKEVPP TETVPQVKKE KHSTQAKNRA KRKPPKGMFL SQEDVEAVSA NATAATTVLR QLDMELVSIK RQIQNIKQTN SALKEKLDGG IEPYRLPEVI QKCNARWTTE EQLLAVQAIR KYGRDFQAIS DVIGNKSVVQ VKNFFVNYRR RFNIDEVLQE WEAEHGKDET NGPANQKPVK SPESSIKIPE EEDEAASVLD VRYASAS
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	52,715 Da
Sequence Positions	1-477, 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 Q8CFE3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rcor1 recombinant protein	MBS1322939 is a recombinant protein targeting Rcor1. Also known as Recombinant Mouse 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 #	39930559
NCBI GeneID	217864
NCBI Accession #	NP_932140.1
UniProt Primary Accession #	Q8CFE3

UniProt Secondary Accession #	Q3V092; Q8BK28; Q8CHI2; K3W4P9
UniProt Related Accession #	Q8CFE3
GenBank Nucleotide #	NM_198023.2
NCBI Official Full Name	REST corepressor 1
NCBI Official Synonym Full Names	REST corepressor 1
NCBI Official Symbol	Rcor1
NCBI Official Synonym Symbols	Rocr1; AU042633; D12Wsu95e; mKIAA0071; 5730409O11; 6720480E22Rik
UniProt Protein Name	REST corepressor 1
UniProt Synonym Protein Names	Protein CoREST
Protein Family	REST corepressor
UniProt Gene Name	Rcor1
UniProt Synonym Gene Names	D12Wsu95e; Kiaa0071
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, including MeCP2 and SUV39H1, 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. It also protects KDM1A from the proteasome. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development and controls hematopoietic differentiation.
Research Articles on Rcor1	**1.** In mature erythroid cells, a strong upsurge in Rcor3 and a sharp decline in Rcor1 levels counteract LSD1/Rcor1/2-mediated differentiation.
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