CREB-Regulated Transcription Coactivator 2 (CRTC2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CREB-regulated transcription coactivator 2 (CRTC2), Recombinant Protein
Full Product Name	Recombinant Human CREB-regulated transcription coactivator 2 (CRTC2)
Product Gene Name	CRTC2 recombinant protein
Product Synonym Gene Name	CRTC2
Sequence	ATSGANGPGS ATASASNPRK FSEKIALQKQ RQAEETAAFE EVMMDIGSTR LQAQKLRLAY TRSSHYGGSL PNVNQIGSGL AEFQSPLHSP LDSSRSTRHH GLVERVQRDP RRMVSPLRRY TRHIDSSPYS PAYLSPPPES SWRRTMAWGN FPAEKGQLFR LPSALNRTSS DSALHTSVMN PSPQDTYPGP TPPSILPSRR GGILDGEMDP KVPAIEENLL DDKHLLKPWD AKKLSSSSSR PRSCEVPGIN IFPSPDQPAN VPVLPPAMNT GGSLPDLTNL HFPPPLPTPL DPEETAYPSL SGGNSTSNLT HTMTHLGISR GMGLGPGYDA PGLHSPLSHP SLQSSLSNPN LQASLSSPQP QLQGSHSHPS LPASSLARHV LPTTSLGHPS LSAPALSSSS SSSSTSSPVL GAPSYPASTP GASPHHRRVP LSPLSLLAGP ADARRSQQQL PKQFSPTMSP TLSSITQGVP LDTSKLSTDQ RLPPYPYSSP SLVLPTQPHT PKSLQQPGLP SQSCSVQSSG GQPPGRQSHY GTPYPPGPSG HGQQSYHRPM SDFNLGNLEQ FSMESPSASL VLDPPGFSEG PGFLGGEGPM GGPQDPHTFN HQNLTHCSRH GSGPNIILTG DSSPGFSKEI AAALAGVPGF EVSAAGLELG LGLEDELRME PLGLEGLNML SDPCALLPDP AVEESFRSDR LQ
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	73,302 Da
Sequence Positions	2-693, 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.
OMIM	608972
3D Structure	ModBase 3D Structure for Q53ET0
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CRTC2 recombinant protein	MBS1328589 is a recombinant protein targeting CRTC2. Also known as Recombinant Human CREB-regulated transcription coactivator 2 (CRTC2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CRTC2 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 CRTC2. It may not necessarily be applicable to this product.

NCBI GI #	32171215

NCBI GeneID	200186
NCBI Accession #	NP_859066.1
UniProt Primary Accession #	Q53ET0
UniProt Secondary Accession #	Q6UUV8; Q7Z3X7; Q8N332
UniProt Related Accession #	Q53ET0
GenBank Nucleotide #	NM_181715.2
NCBI Official Full Name	CREB-regulated transcription coactivator 2
NCBI Official Synonym Full Names	CREB regulated transcription coactivator 2
NCBI Official Symbol	CRTC2
NCBI Official Synonym Symbols	TORC2; TORC-2
UniProt Protein Name	CREB-regulated transcription coactivator 2
UniProt Synonym Protein Names	Transducer of regulated cAMP response element-binding protein 2; TORC-2; Transducer of CREB protein 2
Protein Family	CREB-regulated transcription coactivator
UniProt Gene Name	CRTC2
UniProt Synonym Gene Names	TORC2; TORC-2; Transducer of CREB protein 2
NCBI Protein Information	CREB-regulated transcription coactivator 2
NCBI Summary for CRTC2	This gene encodes a member of the transducers of regulated cAMP response element-binding protein activity family of transcription coactivators. These proteins promote the transcription of genes targeted by the cAMP response element-binding protein, and therefore play an important role in many cellular processes. Under basal conditions the encoded protein is phosphorylated by AMP-activated protein kinase or the salt-inducible kinases and is sequestered in the cytoplasm. Upon activation by elevated cAMP or calcium, the encoded protein translocates to the nucleus and increases target gene expression. Single nucleotide polymorphisms in this gene may increase the risk of type 2 diabetes. A pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2010]
UniProt Comments for CRTC2	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. Regulates the expression of specific genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR).
Research Articles on CRTC2	**1.** Thyroid stimulating hormone activates CRTC2 via the TSHR/cAMP/PKA pathway.
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