

## Product datasheet for **TP306974**

### **TORC1 (CRTC1) (NM\_015321) Human Recombinant Protein**

#### **Product data:**

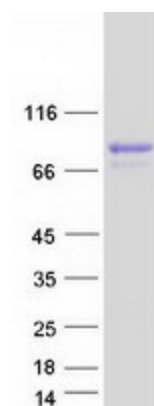
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human CREB regulated transcription coactivator 1 (CRTC1), transcript variant 1, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC206974 representing NM_015321 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MATSNNPRKFSEKIALHNQKQAEETAAFEVEMKDLSTRAARLQLQKSQYLQLGPSRGQYYGGSLPNVNO IGSGTMDLPFQTPFQSSGLDTSRTRHHGLVDRVYRERGLGSPHRRPLSVDKHGRQADSCPYGTMYLSP PADTSWRRTNSDSALHQSTMTPTQPESFSSGSQDVHQKRVLLLTPGMEETTSEADKNLSKQAWDTKKTG SRPKSCEVPGINIFPSADQENTTALIPATHNTGGSLPDLTNIHFPSPLPTPLDPEEPTFPALSSSSSTGN LAANLTHLGIGGAGQGMSTPGSSPQHRPAGVSPLSLSTEARRQASPALSPLSPITQAVAMDALSLEQQL PYAFFTQAGSQQPPPPQPPPPPPASQQPPPPPPQAPVRLPPGGPLLPSASLTRGPQPPPLAVTVPSS LPQSPPENPGQPSMGIDIASAPALQQYRTSAGSPANQSPTSPVSNQGFSPGSSPQHTSTLGSVFGDAYYE QQMAARQANALSHQLEQFNMMENAISSSSLYSPGSTLNYSQAAMMGLTGSHGSLPDSQQLG YASHSGIPN IILVTGESPPSLSKELTSSLAGVGDVSDSDSQFPLDELKIDPLTL DGLHMLNDPDMVLADPATEDTFR MDRL  <b>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	67.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_056136</a>
<b>Locus ID:</b>	23373
<b>UniProt ID:</b>	<a href="#">Q6UUV9</a>
<b>RefSeq Size:</b>	2505
<b>Cytogenetics:</b>	19p13.11
<b>RefSeq ORF:</b>	1902
<b>Synonyms:</b>	Mam-2; MAML2; MECT1; TORC-1; TORC1; WAMTP1
<b>Summary:</b>	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 the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PGC1alpha and inducer of mitochondrial biogenesis in muscle cells. In the hippocampus, involved in late-phase long-term potentiation (L-LTP) maintenance at the Schaffer collateral-CA1 synapses. May be required for dendritic growth of developing cortical neurons (By similarity). In concert with SIK1, regulates the light-induced entrainment of the circadian clock. In response to light stimulus, coactivates the CREB-mediated transcription of PER1 which plays an important role in the photic entrainment of the circadian clock.[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Transcription Factors

### Product images:



Coomassie blue staining of purified CRTC1 protein (Cat# TP306974). The protein was produced from HEK293T cells transfected with CRTC1 cDNA clone (Cat# [RC206974]) using MegaTran 2.0 (Cat# [TT210002]).