

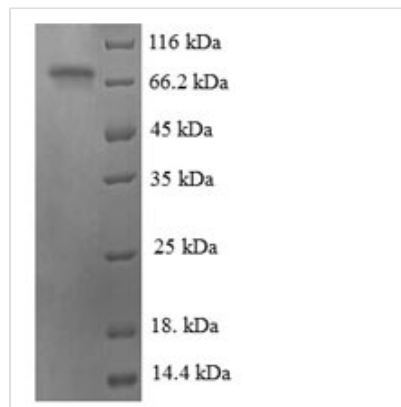


# Recombinant Human Cyclic AMP-dependent transcription factor ATF-2 (ATF2)

<b>Product Code</b>	CSB-EP002270HU
<b>Relevance</b>	<p>Transcriptional activator which regulates the transcription of various genes, including those involved in anti-apoptosis, cell growth, and DNA damage response. Dependent on its binding partner, binds to CRE (cAMP response element) consensus sequences (5'-TGACGTCA-3') or to AP-1 (activator protein 1) consensus sequences (5'-TGAAGTCA-3'). In the nucleus, contributes to global transcription and the DNA damage response, in addition to specific transcriptional activities that are related to cell development, proliferation and death. In the cytoplasm, interacts with and perturbs HK1- and VDAC1-containing complexes at the mitochondrial outer membrane, thereby impairing mitochondrial membrane potential, inducing mitochondrial leakage and promoting cell death. The phosphorylated form (mediated by ATM) plays a role in the DNA damage response and is involved in the ionizing radiation (IR)-induced S phase checkpoint control and in the recruitment of the MRN complex into the IR-induced foci (IRIF). Exhibits histone acetyltransferase (HAT) activity which specifically acetylates histones H2B and H4 in vitro. In concert with CUL3 and RBX1, promotes the degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM. Can elicit oncogenic or tumor suppressor activities depending on the tissue or cell type.</p>
<b>Abbreviation</b>	Recombinant Human ATF2 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P15336
<b>Alias</b>	Activating transcription factor 2;Cyclic AMP-responsive element-binding protein 2 ;CREB-2 ;cAMP response element-binding protein CRE-BP1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	<p>MKFKLHVNSARQYKDLWNMSDDKPFLLCTAPGCGQRFTNEDHLAVHKHKHEM          TLKFGPARNDVIVADQTPTRFLKNCEEVGLFNELASPFENEFKKASEDDIK          KMPLDLSPLATPIIRSKIEEPSVETTHQD SPLPHESTTSDEKEVPLAQTAQPT          SAIVRPASLQV PNVLLTSSDSSVIIQQAVPSPSTVITQAPSSNRPIVPVPGPF          PLLLHLPNGQTMPVAIPASITSSNVHVPAAVPLVRPVTMVPSVPGIPGPSSPQP          VQSEAKMRLKAALTQQHPPVTNGDTVKGHGSLVVRTQSEESRPQSLQQPAT          STTETPASPAHTTPQTQSTSGRRRRAANEDPDEKRRKFLERNRAAASRCRQK          RKVWVQSLEKKAEDLSSLNGQLQSEVTLRNEVAQLKQLLLAHKDCPVTAMQ          KKSGYHTADKDDSSDISVPSSPHTAIQHSSVSTSNVGSSTSKAEAVATSVLT          QMADQSTEPALSQIVMAPSSQSQSPGS</p>



<b>Research Area</b>	Transcription
<b>Source</b>	E.coli
<b>Target Names</b>	ATF2
<b>Expression Region</b>	1-505aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	70.5kDa
<b>Protein Length</b>	Full Length

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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