

## Recombinant Human EP300 Protein (catalytic domain, 965-1810), N-Flag-tagged

Cat. No. EP300-04H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant p300 protein, catalytic domain that includes amino acids 965 - 1810 of human p300 protein (accession number NP_001420.2) was expressed in baculovirus expression system and contains an N-FLAG tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	965-1810
<b>Description</b>	This gene encodes the adenovirus E1A-associated cellular p300 transcriptional co-activator protein. It functions as histone acetyltransferase that regulates transcription via chromatin remodeling and is important in the processes of cell proliferation and differentiation. It mediates cAMP-gene regulation by binding specifically to phosphorylated CREB protein. This gene has also been identified as a co-activator of HIF1A (hypoxia-inducible factor 1 alpha), and thus plays a role in the stimulation of hypoxia-induced genes such as VEGF. Defects in this gene are a cause of Rubinstein-Taybi syndrome and may also play a role in epithelial cancer.
<b>Molecular Mass</b>	98.7 kDa
<b>Applications</b>	Recombinant p300 protein, catalytic domain is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

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<b>Usage</b>	0.5 µg Histone H4 was incubated with 0 µg (-), 0.5 µg (+) p300 protein, catalytic domain in 20 µL reaction system containing 50 mM Tris-HCl pH 8.0, 0.1 mM EDTA, 50 ng/µL BSA, 1 mM TCEP and 20 µM Acetyl-CoA for 2 hours at room temperature. Half of each reaction was run on a 13% SDS-PAGE gel, and products were detected by Western blot. H4ac (pan-acetyl) antibody was used to recognize acetylated histone H4.
<b>Notes</b>	This product is for research use only and is not for use in diagnostic procedures.
<b>Stability</b>	This product is guaranteed for 6 months from date of arrival.
<b>Storage</b>	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
<b>Concentration</b>	0.23 µg/µL
<b>Storage Buffer</b>	Recombinant p300 protein, catalytic domain is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.

## GENE INFORMATION



<b>Gene Name</b>	EP300 E1A binding protein p300 [ Homo sapiens (human) ]
<b>Official Symbol</b>	EP300
<b>Synonyms</b>	EP300; E1A binding protein p300; p300; KAT3B; MKHK2; RSTS2; histone acetyltransferase p300; E1A-associated protein p300; E1A-binding protein, 300kD; histone butyryltransferase p300; histone crotonyltransferase p300; p300 HAT; protein 2-hydroxyisobutyryltransferase p300; protein lactyltransferas p300; protein

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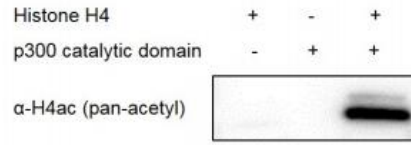
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propionyltransferase p300; EC 2.3.1.48

**Gene ID** 2033**mRNA Refseq** NM\_001429**Protein Refseq** NP\_001420**MIM** 602700**UniProt ID** Q7Z6C1**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA

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