

## Active Recombinant Human EP300 protein

**Cat. No.** EP300-42H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human EP300 catalytic domain (aa 1284-1673) was expressed in E. coli.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 1284-1673 a.a.   |
| <b>Description</b>      | Although originally termed histone acetyltransferases (HATs) for their lysine acetylation activity on histone N-terminal tails, p300 and its paralogue, CBP, have been shown to acetylate a variety of non-histone proteins including p53, DNA polymerase $\beta$ and nuclear import factors. p300/CBP acetylations play regulatory roles in transcription, DNA repair and replication, the cell cycle, p53 turnover, and nuclear import. In addition to functions which overlap with those of CBP, p300 has a number of unique functions, including a role in the induction of p21Waf1/Cip1 cell cycle inhibitor. |
| <b>Form</b>             | Liquid. In 50mM TRIS/HCl, pH 8.0, containing 0.1mM EDTA, 10% glycerol.   |
| <b>Bio-activity</b>     | $\geq 250$ pmol/min/ $\mu$ g assayed as production of CoA-SH from AcCoA in the presence of a peptide comprising human p53 residues 368-386. CoA-SH is determined colorimetrically by reaction with DTNB (5,5'-Dithiobis(2-nitrobenzoic acid)).   |
| <b>Molecular Mass</b>   | 45.1 kDa   |

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|                     |   |
|---------------------|---|
| <b>Purity</b>       | Partially purified by single-step affinity chromatography and gel filtration.   |
| <b>Applications</b> | Can be used to study p300 kinetics and regulation, for screening for inhibitors or activators and for radiolabeling of proteins or peptides with, for example, [3H]-Acetyl CoA. |
| <b>Storage</b>      | Long Term Storage: -80 centigrade   |

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | EP300 E1A binding protein p300 [ Homo sapiens ]   |
| <b>Official Symbol</b>     | EP300   |
| <b>Synonyms</b>            | EP300; E1A binding protein p300; histone acetyltransferase p300; KAT3B; p300; p300 HAT; E1A-binding protein, 300kD; E1A-associated protein p300; RSTS2;           |
| <b>Gene ID</b>             | 2033  |
| <b>mRNA Refseq</b>         | NM_001429   |
| <b>Protein Refseq</b>      | NP_001420   |
| <b>MIM</b>                 | 602700  |
| <b>UniProt ID</b>          | Q09472  |
| <b>Chromosome Location</b> | 22q13.2   |
| <b>Pathway</b>             | ATF-2 transcription factor network, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen |

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Receptor Signaling Pathway, organism-specific biosystem; BMAL1:CLOCK/NPAS2  
Activates Circadian Expression, organism-specific biosystem; C-MYB transcription  
factor network, organism-specific biosystem; Cell cycle, organism-specific biosystem;

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