

Active Recombinant Human EP300 protein

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

SPECIFICATION

Product Overview	Recombinant Human EP300 catalytic domain (aa 1284-1673) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1284-1673 a.a.
Description	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 β 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.
Form	Liquid. In 50mM TRIS/HCl, pH 8.0, containing 0.1mM EDTA, 10% glycerol.
Bio-activity	≥ 250 pmol/min/ μ 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)).
Molecular Mass	45.1 kDa

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Purity	Partially purified by single-step affinity chromatography and gel filtration.
Applications	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.
Storage	Long Term Storage: -80 centigrade

GENE INFORMATION

Gene Name	EP300 E1A binding protein p300 [Homo sapiens]
Official Symbol	EP300
Synonyms	EP300; E1A binding protein p300; histone acetyltransferase p300; KAT3B; p300; p300 HAT; E1A-binding protein, 300kD; E1A-associated protein p300; RSTS2;
Gene ID	2033
mRNA Refseq	NM_001429
Protein Refseq	NP_001420
MIM	602700
UniProt ID	Q09472
Chromosome Location	22q13.2
Pathway	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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