

Recombinant Human EP300 Protein (bromodomain, 1041-1161), N-His and C-Flag-tagged

Cat. No. EP300-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The peptide corresponding to amino acids 1041 - 1161 that contains the bromodomain sequences of EP300 (accession number NM_001429.3) was expressed in E. coli and contains an N-terminal His-Tag and C-terminal FLAG-Tag with an observed molecular weight of 19.1 kDa. It shows binding specificity for acetylated H3K36, H3K56, H4K12, H4K20 and H4K44, as well as acetylated MyoD-K99/K102. The recombinant protein is >90% pure by SDS-PAGE.
Species	Human
Source	E.coli
ProteinLength	1041-1161
Description	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.
Molecular Mass	19.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Recombinant p300 (1041-1161) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Notes	This product is for research use only and is not for use in diagnostic procedures.
Stability	This product is guaranteed for 6 months from date of arrival.
Storage	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.
Concentration	5 µg/µL
Storage Buffer	Recombinant p300 (1041-1161) protein expressed in E. coli at a concentration of 5 µg/µL in 25 mM Tris pH 7.4, 150 mM NaCl, 5% Glycerol.

GENE INFORMATION

Gene Name	EP300 E1A binding protein p300 [Homo sapiens (human)]
Official Symbol	EP300
Synonyms	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 propionyltransferase p300; EC 2.3.1.48
Gene ID	2033
mRNA Refseq	NM_001429

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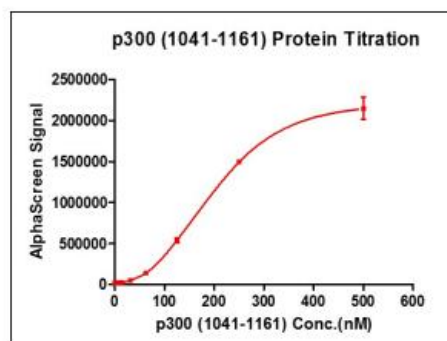
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Protein Refseq NP_001420

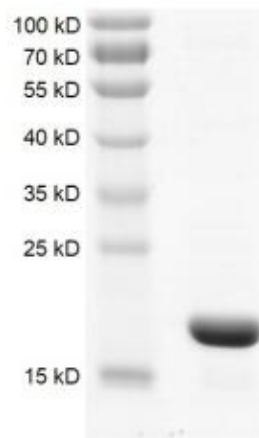
MIM 602700

UniProt ID Q7Z6C1

**Recombinant p300
(1041-1161) activity
using AlphaScreen.**



SDS-PAGE



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