

CREBBP recombinant protein

Recombinant CREBBP (1081-1197) protein

CATALOG # AAA59643	HOST E Coli
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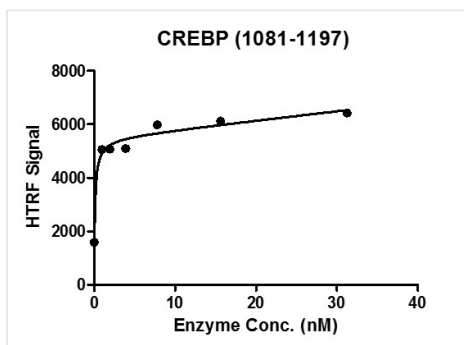
PRODUCT SYNONYMS

CREBBP; Recombinant CREBBP (1081-1197) protein; CBP; RSTS; KAT3A; CREBBP recombinant protein

PRODUCT SPECIFICATIONS

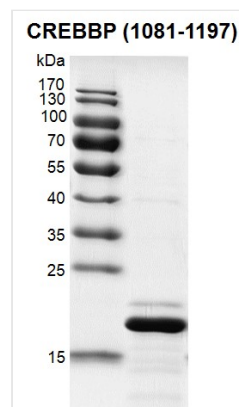
Host	E Coli
Purity/Purification	The recombinant protein is >85% pure by SDS-PAGE.
Form/Format	Recombinant CREBBP (1081-1197) protein is supplied in 25mM Tris pH8, 150mM NaCl and 10% glycerol.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Protein Details	Recombinant CREBBP protein that includes amino acids 1081-1197 that contains the bromodomain sequences of CREBBP (accession number NM_004380.2) was expressed in E Coli and contains an N-terminal His-Tag and C-terminal DYKDDDDK-Tag with an observed molecular weight of 18.7kDa. It shows binding specificity for acetylated H2BK85, H3K9/K14, H3K14, H3K36, H3K56, H3S10/K14/K18, H4K12, H4K20 and H4K44, as well as acetylated p53-K382, MyoD-K99 and MyoD-K99/K102.
Notes	Recombinant CREBBP (1081-1197) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant CREBBP (1081-1197) HTRF activity assay. 3 uM H4K5/8/12/16 (ac4) peptide was incubated with different concentrations of CREBBP (1081-1197) protein in 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.5, 0.1% BSA for 1 hour, then 10 ul DYKDDDDK antibody and SA-XL665 mixture (1:100 dilution in reaction buffer) was added to each reaction system and incubated for 1 hour. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant CREBBP (1081-1197) protein gel. CREBBP (1081-1197) protein was run on a 12.5% SDS-PAGE gel and stained with Coomassie Blue.

ADDITIONAL INFORMATION

Related Product Information for CREBBP recombinant protein	Short Description: The peptide corresponding to amino acids 1081-1197 that contains the bromodomain sequences of CREBBP (accession number NM_004380.2) was expressed in E Coli and contains an N-terminal His-tag and C-terminal DYKDDDDK tag with an observed molecular weight of 18.7 kDa. It shows binding specificity for acetylated H2BK85, H3K9/K14, H3K14, H3K36, H3K56, H3S10/K14/K18, H4K12, H4K20 and H4K44, as well as acetylated p53-K382, MyoD-K99 and MyoD-K99/K102. CREB-binding protein (CREBBP) or CBP, is a protein known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. CREBBP shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. The CREBBP bromodomain recognizes acetylated histone lysine residues and functions as a 'reader' of these epigenetic histone marks to regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. CREBBP has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. CREBBP acetylates histones as well as non-histone proteins, like NCOA3 coactivator. In addition, CREBBP binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. CREBBP also has been shown to act as a coactivator of ALX1 in the presence of p300. Recombinant CREBBP (1081-1197) can be used in binding assays and inhibitor screening. Background: CREB-binding protein (CREBBP) or CBP, is a protein known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. CREBBP shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. The CREBBP bromodomain recognizes acetylated histone lysine residues and functions as a 'reader' of these epigenetic histone marks to regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. CREBBP has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. CREBBP acetylates histones as well as non-histone proteins, like NCOA3 coactivator. In addition, CREBBP binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. CREBBP also has been shown to act as a coactivator of ALX1 in the presence of p300.
Product Categories/Family for CREBBP recombinant protein	Recombinant Proteins; Bromodomain; Histone Acetyltransferase (HAT)

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004380.2
Molecular Weight	Molecular weight of 18.7 kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/crebbp-recombinant-protein-e-coli/59643>