

CREB Blocking Peptide
Catalog # PBV10148b**Specification**

CREB Blocking Peptide - Product Information

Primary Accession	P15337
Other Accession	EDL98880
Gene ID	81646
Calculated MW	35081

CREB Blocking Peptide - Additional Information**Gene ID** 81646**Application & Usage**

Transcription factor CREB binds the cAMP response element (CRE) and activates transcription in response to a variety of extracellular signals including neurotransmitters, hormones, membrane depolarization, and growth or neurotrophic factors. Protein kinase A and the calmodulin-dependent protein kinase CaMKII stimulate CREB phosphorylation at Ser133, a key regulatory site controlling transcriptional activity. Phosphorylation at Ser133 is also mediated by p44/42 MAP kinase, p90RSK, p38 MAP kinase and MSK1. CREB appears to play an important role in learning and memory in both flies and mice.

Other Names

Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1, Creb1, Creb-1

Target/Specificity

CREB

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

CREB Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

CREB Blocking Peptide - Protein Information

Name Creb1

Synonyms Creb-1

Function

Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters (By similarity). Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation (By similarity). Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells (By similarity). Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling (PubMed:30566056).

Cellular Location

Nucleus.

CREB Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CREB Blocking Peptide - Images