

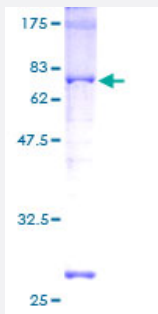
Full-Length

CREB1 (Human) Recombinant Protein (P01)

Catalog # H00001385-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CREB1 full-length ORF (AAH10636, 1 a.a. - 341 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTMESGAENQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMCAAHATSSAPTMTLVQLPNGQT
VQVHGVIAAQPSPVQSPQVQTVQSSCKDLKRLFSGTQISTAESEDSQESVDSVTDSQKRREILS
RRPSYRKILNDLSSDAPGVPRIEEEKSEEETSAPAITTVTPTPYQTSSGQYAITQGGAQLANNGT
DGVQGLQTLTMTNAAATQPGTTLQYAQTDDGQQLVPSNHVVVQAASGDVQTYQIRTAPTSTIAPG
VVMASPPALPTQPAEEAARKREVRLMKNREAARECRRKKKEYVKCLNRAVAVLENQNKTLIEEL
KALKDLYCHKSD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.25

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CREB1

Entrez GeneID [1385](#)

GeneBank Accession# [BC010636](#)

Protein Accession# [AAH10636](#)

Gene Name CREB1

Gene Alias CREB, MGC9284

Gene Description cAMP responsive element binding protein 1

Omim ID [123810](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations active transcription factor CREB|cAMP-response element-binding protein-1|transactivator protein

Publication Reference

- [ILF2 Directly Binds and Stabilizes CREB to Stimulate Malignant Phenotypes of Liver Cancer Cells.](#)

Du H, Le Y, Sun F, Li K, Xu Y.

Analytical Cellular Pathology (Amsterdam) 2019 Feb; 2019:1575031.

Application: IP, Human, Bel-7402, SMMC-7721 cells

- [Organic conjugated small molecule materials based optical probe for rapid, colorimetric and UV-vis spectral detection of phosphorylated protein in placental tissue.](#)

Wang Y, Yang N, Liu Y.

Spectrochimica Acta. Part A, Molecular and Biomolecular Spectroscopy 2018 Jan; 194:45.

Application: ELISA, Recombinant protein

- [Detection of CREB Phosphorylation via Zr \(IV\) Ion Mediated Signal Amplification.](#)

Yin T, Li H, Yang N, Gao T, Sun L, Li G.

Biosensors & Bioelectronics 2014 Jun; 56:1.

Application: Func, DNA

Pathway

- [Antigen processing and presentation](#)
- [Melanogenesis](#)
- [Prostate cancer](#)

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Arousal](#)
- [Asthma](#)
- [Avoidance Learning](#)
- [Bipolar Disorder](#)

- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Choice Behavior](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Dominance](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Lymphoma](#)
- [Memory](#)
- [Metabolic Syndrome X](#)
- [Mood Disorders](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Pattern Recognition](#)
- [Personality Inventory](#)
- [Psychiatric Status Rating Scales](#)
- [Psychomotor Performance](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sleep Disorders](#)
- [Weight Gain](#)