

Product Information

CBP (1319-1710), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5173**

Storage Temperature -70°C

Synonyms: CREBBP, RTS, RSTS

Product Description

CBP or CREB-binding protein is a nuclear transcriptional coactivator protein that binds specifically to the PKA-phosphorylated form of the CREB protein. Microinjection of an anti-CBP antiserum into fibroblasts leads to inhibition of transcription from a cAMP promoter.¹ CBP can also cooperate with upstream activators, such as JUN. When JUN is phosphorylated at the transcriptionally stimulatory sites Ser⁷³ and Ser⁶³, it binds CBP with comparable affinity to CREB. Insulin signaling may directly regulate many cAMP signaling pathways at the transcriptional level by controlling CBP recruitment.² Mutant CBP can be aberrantly recruited to CREB protein, resulting in inappropriate activation of gluconeogenesis and glucose intolerance.

Recombinant human CBP (1319-1710) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_004380. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~71 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

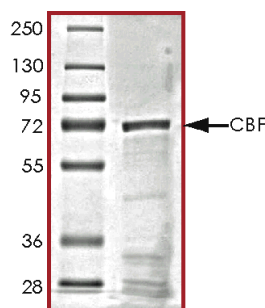
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Arias, J. et al., Activation of cAMP and mitogen responsive genes relies on a common nuclear factor. *Nature*, **370**, 226-229 (1994).
2. Zhong, H. et al., The phosphorylation status of nuclear NF-kappa-B determines its association with CBP/p300 or HDAC-1. *Molec. Cell*, **9**, 625-636 (2002).

DKF,MAM 10/11-1