

Product Information

PCAF (431-end), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5116**
Storage Temperature -70°C

Synonyms: CAF, GCN5, GCN5L, P/CAF, GCN5L1

Product Description

PCAF is a protein that shows homology to the yeast GCN5 and associates with p300/CBP. PCAF has *in vitro* and *in vivo* binding activity with CBP and p300, and competes with E1A for binding sites in p300/CBP.¹ PCAF encodes a predicted 832-amino acid protein that shows by RNA blotting to be expressed in all tissues, most strongly in heart and skeletal muscle. PCAF has histone acetyl transferase activity with core histones and nucleosome core particles, indicating this protein plays a direct role in transcriptional regulation. PCAF is required for MyoD activity and muscle differentiation. PCAF directly acetylated MyoD, which then displays an increased affinity for its DNA target.²

Recombinant human PCAF (431-end) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_003884. 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: ~69 kDa

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

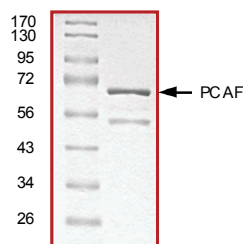
Precautions and Disclaimer

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. Yang, X.J. et al., A p300/CBP-associated factor that competes with the adenoviral oncoprotein E1A. *Nature*, **382**, 319-324 (1996).
2. Sartorelli, V. et al., Acetylation of MyoD directed by PCAF is necessary for the execution of the muscle program. *Molec. Cell*, **4**, 725-734 (1999).

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