



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



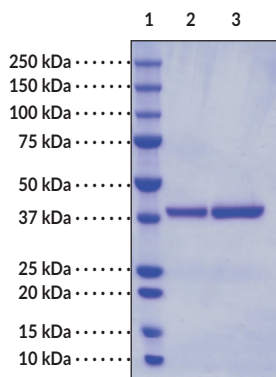
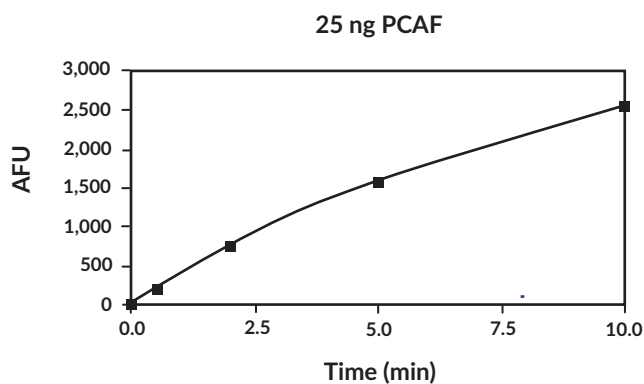
## PCAF Histone Acetyltransferase (human, recombinant)

Item No. 10009115

### Overview and Properties

**Synonyms:** p300/(CREB binding protein) Associated Factor, HAT  
**Source:** Active recombinant GST-tagged protein purified from *E. coli*  
**Amino Acids:** 492-656 (partial protein)  
**Molecular Weight:** ~40 kDa  
**Storage:** -80°C (as supplied)  
**Stability:** ≥1 year  
**Purity:** *batch specific* (≥80% estimated by SDS-PAGE)  
**Supplied in:** 50 mM HEPES, pH 8, with 150 mM NaCl, 1 mM EDTA, and 20% glycerol  
**Protein Concentration:** *batch specific* mg/ml  
**Specific Activity:** *batch specific* μmol/min/mg (determined by production of CoASH from 15 μM AcetylCoA and 25 μM H3 peptide residues 3-23 in a fluorogenic thiol-reactive maleimide assay)

### Images



Lane 1: MW Markers  
Lane 2: PCAF (2 μg)  
Lane 3: PCAF (4 μg)

*Representative gel image shown; actual purity may vary between each batch.*

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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**CAYMAN CHEMICAL**  
1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA  
PHONE: [800] 364-9897  
[734] 971-3335  
FAX: [734] 971-3640  
CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM

# PRODUCT INFORMATION



## Description

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p300/(CREB binding protein) associated factor (PCAF) belongs to the GCN5/PCAF family of nuclear histone acetyltransferases (HATs).<sup>1</sup> Gcn5/PCAF proteins contain a ~160 residue HAT domain and a conserved bromodomain directly C-terminal to the HAT domain, which has been shown recently to be an acetyl-lysine targeting motif.<sup>1,2</sup> PCAF acetylates specific lysines on the N-terminal tails of Histones H3 & H4 and on the transcriptional activators MyoD, E2F1, and p53. Recently, PCAF was also shown to acetylate PTEN on lysine residues K125 & K128 within the catalytic cleft thus inactivating the enzyme.<sup>3</sup> In many, but not all of these cases, acetylation has been shown to enhance the DNA binding affinity of the affected protein. Although the recombinant HAT proteins will acetylate free histones, nucleosomal acetylation only occurs in the context of the in vivo HAT complex.

Cayman's PCAF preparation contains 165 amino acids from the HAT activity domain of human PCAF fused to GST at the N-terminus.<sup>4</sup> Enzyme activity was determined using a fluorescent HAT assay and is comparable to that found in the literature.<sup>5</sup>

## References

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1. Marmorstein, R. *Cell. Mol. Life Sci.* **58**, 693-703 (2001).
2. Carrozza, M.J., Utley, R.T., Workman, J.L., *et al.* *TRENDS in Genetics* **19(6)**, 321-327 (2003).
3. Okumura, K., Mendoza, M., Bachoo, R.M., *et al.* *J. Biol. Chem.* **281**, 26562-26568 (2006).
4. Clements, A., Rojas, J.R., Trievel, R.C., *et al.* *EMBO J.* **18(13)**, 3521-3532 (1999).
5. Trievel, R.C., Li, F.-Y., and Marmorstein, R. *Anal. Biochem.* **287**, 319-328 (2000).

CAYMAN CHEMICAL  
1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA  
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[734] 971-3335  
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