# Recombinant MCAF1 protein (His tag)

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| **Catalog Number** | 540550 |
| **Synonyms** | ATF-interacting protein; ATF-IP; ATF7-interacting protein; ATFa-associated modulator; hAM; MBD1-containing chromatin-associated factor 1; P621 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q6VMQ6 |
| **Molecular Weight** | Predictes a molecular mass of 16.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band. |

## Product Information

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| **Sequence Region** | 1139-1270 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1139-1270 aa (Q6VMQ6) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant ATF7IP Fragment (1139-1270) is a high-purity protein derived from human Activating Transcription Factor 7-Interacting Protein 1, designed to encompass the Fibronectin type-III domain. This fragment serves as an essential tool for investigating domain-specific mechanisms in transcriptional regulation and chromatin remodeling.<br>ATF7IP is a multifunctional recruiter protein in humans that couples transcriptional factors to the general transcription machinery, modulating gene expression and chromatin formation. It can act as both an activator and repressor depending on cellular context, playing critical roles in HUSH-mediated heterochromatin formation, gene silencing, and MBD1-dependent transcriptional repression by facilitating histone H3 lysine 9 trimethylation through SETDB1 stabilization. Additionally, ATF7IP supports telomerase gene expression in cancer cells via SP1. The protein localizes to the nucleus, where it orchestrates key epigenetic and transcriptional processes. |