Recombinant MCAF2 protein (His tag)

Catalog Number	549511
Synonyms	ATF7-interacting protein 2; MBD1-containing chromatin-associated factor 2
Species	Human
Expression System	E. coli
Accession	Q5U623
Molecular Weight	Predictes a molecular mass of 16.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	550-682
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 550-682 aa (Q5U623) were fused with 6His tag.

Storage & Handling

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. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a specific fragment (residues 550-682) of Human Activating Transcription Factor 7-Interacting Protein 2 (ATF7IP2), encompassing the complete Fibronectin type-III domain. This fragment serves as an essential tool for researchers investigating domain-specific functions in transcriptional regulation and chromatin remodeling. ATF7IP2 functions as a recruiter that couples transcriptional factors to the general transcription apparatus, playing a dual role as both an activator and repressor depending on cellular context. It mediates MBD1-dependent transcriptional repression, likely by recruiting complexes containing SETDB1, thereby linking DNA methylation with histone H3 'Lys-9' trimethylation (H3K9me3) activity. The protein is localized to the nucleus, where it modulates transcription regulation and chromatin formation, making it a key subject of study in epigenetic mechanisms and gene expression control.