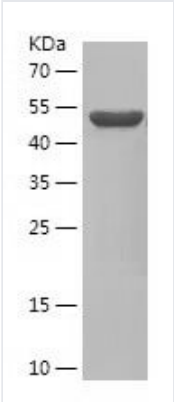
# MOF Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | MOF, Recombinant Protein |
| **Full Product Name** | Recombinant Human MOF |
| **Product Gene Name** | MOF recombinant protein |
| **Product Synonym Names** | hMOF; KAT8; MOF; MYST 1; MYST1 |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4 |
| **Purity/Purification** | Greater than 90% by SDS-PAGE gel analyses |
| **Preparation and Storage** | Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution |
| **Molecular Weight** | 458 |
| **Sequence Positions** | 177-448 |
| **OMIM** | 609912 |
| **3D Structure** | ModBase 3D Structure for Q9H7Z6 |
| **Species** | Human |
| **Tag** | N-terminal His-IF2DI Tag |
| **Reconstitution** | Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for MOF recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for MOF recombinant protein** | MBS7615660 is a recombinant protein targeting MOF. Also known as Recombinant Human MOF. Host: E Coli. |
| **Other Notes** | Small volumes of MOF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




SDS-Page of MOF recombinant protein

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MOF. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 68565938 |
| **NCBI GeneID** | 84148 |
| **NCBI Accession #** | Q9H7Z6.2 |
| **UniProt Primary Accession #** | Q9H7Z6 |
| **UniProt Secondary Accession #** | Q659G0; Q7LC17; Q8IY59; Q8WYB4; Q8WZ14; Q9HAC5; Q9NR35; A8K4Z1; G5E9P2 |
| **UniProt Related Accession #** | Q9H7Z6 |
| **NCBI Official Full Name** | Histone acetyltransferase KAT8 |
| **NCBI Official Synonym Full Names** | K(lysine) acetyltransferase 8 |
| **NCBI Official Symbol** | KAT8 |
| **NCBI Official Synonym Symbols** | MOF; hMOF; MYST1; ZC2HC8 |
| **UniProt Protein Name** | Histone acetyltransferase KAT8 |
| **UniProt Synonym Protein Names** | Lysine acetyltransferase 8; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1; MYST-1; hMOF |
| **Protein Family** | Males-absent on the first protein |
| **UniProt Gene Name** | KAT8 |
| **UniProt Synonym Gene Names** | MOF; MYST1; MYST-1; hMOF |
| **UniProt Entry Name** | KAT8_HUMAN |
| **NCBI Protein Information** | histone acetyltransferase KAT8; MYST-1; lysine acetyltransferase 8; histone acetyltransferase MYST1; MYST histone acetyltransferase 1; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1; probable histone acetyltransferase MYST1; ortholog of Drosophila males absent |
| **NCBI Summary for MOF** | This gene encodes a member of the MYST histone acetylase protein family. The encoded protein has a characteristic MYST domain containing an acetyl-CoA-binding site, a chromodomain typical of proteins which bind histones, and a C2HC-type zinc finger. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012] |

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| **UniProt Comments for MOF** | MYST1: Histone acetyltransferase which may be involved in transcriptional activation. May influence the function of ATM. As part of the MSL complex it is involved in acetylation of nucleosomal histone H4 producing specifically H4K16ac. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. That activity is less specific than the one of the MSL complex. Belongs to the MYST (SAS/MOZ) family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: EC 2.3.1.48; Acetyltransferase<br><br>Chromosomal Location of Human Ortholog: 16p11.2<br><br>Cellular Component: kinetochore; nucleoplasm; nuclear membrane; nucleus; histone acetyltransferase complex<br><br>Molecular Function: protein binding; histone acetyltransferase activity; enzyme binding; metal ion binding; acetyltransferase activity; histone acetyltransferase activity (H4-K16 specific); transcription factor binding; methylated histone residue binding<br><br>Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; myeloid cell differentiation; regulation of autophagy; histone acetylation; negative regulation of transcription, DNA-dependent |
| **Research Articles on MOF** | **1.** low expression of hMOF was strongly correlated with tumor differentiation and survival of patients with gastric cancer. While in patients with renal cell carcinoma, downregulation of hMOF was connected to ccRCC and tissues with T1 tumor status. |
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