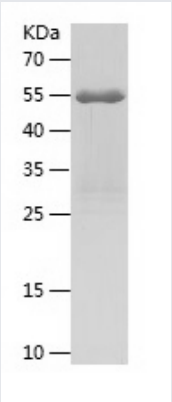
MTF1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MTF1, Recombinant Protein
Full Product Name	Recombinant Human MTF1
Product Gene Name	MTF1 recombinant protein
Product Synonym Names	MTF 1; MTF1; Transcription factor MTF 1; ZRF
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	80,957 Da
Sequence Positions	324-528
OMIM	600172
3D Structure	ModBase 3D Structure for Q14872
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 MTF1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for MTF1 recombinant protein	MBS7615890 is a recombinant protein targeting MTF1. Also known as Recombinant Human MTF1. Host: E Coli.
Other Notes	Small volumes of MTF1 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 MTF1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTF1. It may not necessarily be applicable to this product.

NCBI GI #	112790163
NCBI GeneID	4520
NCBI Accession #	NP_005946.2
UniProt Primary Accession #	Q14872
UniProt Secondary Accession #	Q96CB1; B2RAK6
UniProt Related Accession #	Q14872
GenBank Nucleotide #	NM_005955.2
NCBI Official Full Name	metal regulatory transcription factor 1
NCBI Official Synonym Full Names	metal-regulatory transcription factor 1
NCBI Official Symbol	MTF1
NCBI Official Synonym Symbols	ZRF; MTF-1
UniProt Protein Name	Metal regulatory transcription factor 1
UniProt Synonym Protein Names	MRE-binding transcription factor; Transcription factor MTF-1
Protein Family	Metal regulatory transcription factor
UniProt Gene Name	MTF1
UniProt Entry Name	MTF1_HUMAN
NCBI Protein Information	metal regulatory transcription factor 1
NCBI Summary for MTF1	This gene encodes a transcription factor that induces expression of metallothioneins and other genes involved in metal homeostasis in response to heavy metals such as cadmium, zinc, copper, and silver. The protein is a nucleocytoplasmic shuttling protein that accumulates in the nucleus upon heavy metal exposure and binds to promoters containing a metal-responsive element (MRE). [provided by RefSeq, Jul 2008]

UniProt Comments for MTF1	MTF1: Activates the metallothionein I promoter. Binds to the metal responsive element (MRE). Protein type: Transcription factor; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 1p33 Cellular Component: nucleoplasm; nucleus Molecular Function: DNA binding; histone acetyltransferase binding; metal ion binding; protein binding; transcription coactivator activity; transcription factor activity Biological Process: positive regulation of transcription from RNA polymerase II promoter; regulation of transcription from RNA polymerase II promoter; response to cadmium ion; response to metal ion; response to oxidative stress; transcription from RNA polymerase II promoter
Research Articles on MTF1	**1.** Human ZnT2 expression is regulated by MTF-1.
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