

Metallothionein 1 (MT1) Recombinant Protein | MT1 recombinant protein

Recombinant Metallothionein 1 (MT1)

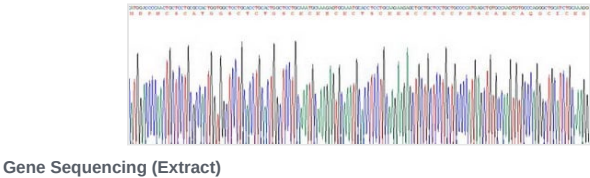
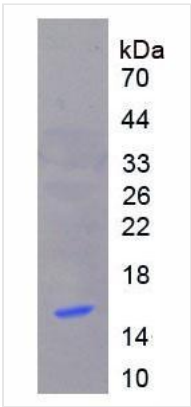
CATALOG # AAA20269	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS SDS-Page, Western Blot
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PRODUCT SYNONYMS

Metallothionein 1 (MT1); Recombinant Metallothionein 1 (MT1); MT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 97%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 250ug/mL (varies by lot)
Applicable Applications for MT1 recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression
Residues	Met1~Ala61
Tags	N-terminal His Tag
Subcellular Location	Nucleus, Cytoplasm
Traits	Freeze-dried powder
Predicted isoelectric point	8.7
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE

MDPNCSCATG GSCTCTGSCK CKECKCTSCK KSCCSCCPMS CAKCAQGCIC
KGASEKCSKC A

Sequence Information

NCBI AND UNIPROT INFORMATION

NCBI GI #	71274113
NCBI GeneID	4489
NCBI Accession #	NP_005937.2
NCBI GenBank Nucleotide #	NM_005946.2
UniProt Accession #	P04731; Q86YX5
Molecular Weight	Predicted Molecular Mass: 10.9kDa Accurate Molecular Mass: 16kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	metallothionein-1A
NCBI Official Synonym Full Names	metallothionein 1A
NCBI Official Symbol	MT1A
NCBI Official Synonym Symbols	MT1; MTC; MT1S
NCBI Protein Information	metallothionein-1A; MT-1A; MT-1A; metallothionein 1S; metallothionein-1A; metallothionein 1A (functional)
UniProt Protein Name	Metallothionein-1A
UniProt Gene Name	MT1A
UniProt Synonym Gene Names	MT1S; MT-1A; MT-1A
UniProt Entry Name	MT1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.