

Recombinant Rat Mt1 Protein, His-tagged

Cat. No. Mt1-1795R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Mt1 Protein (Met1-Ala61) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Ala61
Description	Predicted to enable copper ion binding activity and zinc ion binding activity. Involved in response to cadmium ion and response to zinc ion. Predicted to be located in cytosol and lysosome. Predicted to be active in cytoplasm and nucleus. Biomarker of kidney failure; median neuropathy; and transient cerebral ischemia. Orthologous to human MT1A (metallothionein 1A).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 9.6 kDa Accurate Molecular Mass: 17 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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 centigrade for

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48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

Mt1 metallothionein 1 [*Rattus norvegicus* (Norway rat)]

Official Symbol

Mt1

Synonyms

Mt1; metallothionein 1; MT-I; Mt-1; metallothionein-1; metallothionein-I

Gene ID

24567

mRNA Refseq

NM_138826

Protein Refseq

NP_620181

UniProt ID

P02803

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