

Recombinant Human MT1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MT1A-3491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MT1A MS Standard C13 and N15-labeled recombinant protein (NP_005937) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. The conserved cysteine residues co-ordinate metal ions using mercaptide linkages. These proteins act as anti-oxidants, protect against hydroxyl free radicals, are important in homeostatic control of metal in the cell, and play a role in detoxification of heavy metals. Disruption of two metallothionein genes in mouse resulted in defects in protection against heavy metals, oxidative stress, immune reactions, carcinogens, and displayed obesity.
Molecular Mass	6.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MT1A metallothionein 1A \[Homo sapiens \(human\) \]](#)

Official Symbol [MT1A](#)

Synonyms MT1A; metallothionein 1A; MT1; MTC; MT1S; MT-1A; MT-IA; metallothionein-1A; metallothionein 1A (functional); metallothionein 1S; metallothionein-IA

Gene ID [4489](#)

mRNA Refseq [NM_005946](#)

Protein Refseq [NP_005937](#)

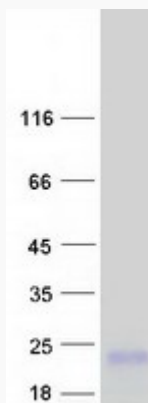
MIM [156350](#)

UniProt ID [P04731](#)

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SDS-PAGE

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