

Product datasheet for **TP302748**

Metallothionein (MT2A) (NM_005953) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human metallothionein 2A (MT2A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202748 protein sequence Red =Cloning site Green =Tags(s) MDPNCSCAAGDSCTCAGSCKCKECKCTSCKKSCCSCPVGCAKCAQGCICKGASDKCSCCA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	5.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_005944</u>
Locus ID:	4502
UniProt ID:	<u>P02795</u>
RefSeq Size:	466
Cytogenetics:	16q13



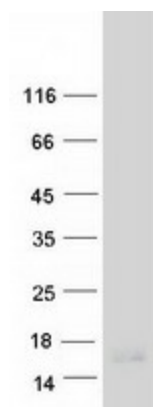
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RefSeq ORF: 183

Synonyms: MT-2; MT-II; MT2

Summary: 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, altering the intracellular concentration of heavy metals in the cell. 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. The encoded protein interacts with the protein encoded by the homeobox containing 1 gene in some cell types, controlling intracellular zinc levels, affecting apoptotic and autophagy pathways. Some polymorphisms in this gene are associated with an increased risk of cancer. [provided by RefSeq, Sep 2017]

Product images:



Coomassie blue staining of purified MT2A protein (Cat# TP302748). The protein was produced from HEK293T cells transfected with MT2A cDNA clone (Cat# [RC202748]) using MegaTran 2.0 (Cat# [TT210002]).