

Product datasheet for TP305942

Metallothionein (MT1A) (NM_005946) Human Recombinant Protein

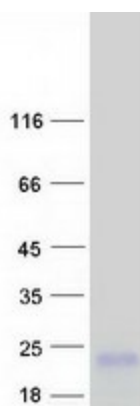
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human metallothionein 1A (MT1A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205942 protein sequence Red =Cloning site Green =Tags(s) MDPNCSCATGGCTCTGCKCKECKCNSCKKSCCSCCPMSCAKCAQGCICKGASEKCSCCA TR TRPLE QKLISEEDLAANDILDYKDDDDKV
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:	NP_005937
Locus ID:	4489
UniProt ID:	P04731
RefSeq Size:	468
Cytogenetics:	16q13


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RefSeq ORF:	183
Synonyms:	MT-1A; MT-1A; MT1; MT1S; MTC
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. 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. [provided by RefSeq, Sep 2017]

Product images:



Coomassie blue staining of purified MT1A protein (Cat# TP305942). The protein was produced from HEK293T cells transfected with MT1A cDNA clone (Cat# [RC205942]) using MegaTran 2.0 (Cat# [TT210002]).