

Recombinant Human MT3, His-tagged

Cat. No. MT3-5039H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Metallothionein 3, also known as MT3, binds heavy metals. This protein contains three zinc and three copper atoms per polypeptide chain and only a negligible amount of cadmium. This protein inhibits survival and neurite formation of cortical neurons in vitro.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol
Molecular Mass	9.3 kDa (91aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDPETCP CPSSGGCTCA DSCCKCEGCKC TSCKKSCCSC CPAECEKCAK DCVCKGGEAA EAEAEKCSCC Q
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot

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and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [MT3 metallothionein 3 \[Homo sapiens \]](#)

Official Symbol MT3

Synonyms MT3; metallothionein 3; metallothionein 3 (growth inhibitory factor (neurotrophic)); metallothionein-3; GIF; MT-3; MT-III; metallothionein-III; growth inhibitory factor; GIFB; GRIF; ZnMT3;

Gene ID [4504](#)

mRNA Refseq [NM_005954](#)

Protein Refseq [NP_005945](#)

MIM [139255](#)

UniProt ID [P25713](#)

Chromosome Location 16q13

Function antioxidant activity; cadmium ion binding; copper ion binding; copper ion binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; drug binding; metal ion binding; protein binding; protein kinase activator activity; zinc ion

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binding;

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