Recombinant Human metallothionein 3, His-tagged

Cat. No. MT3-438H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MT3, 1-68aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-68 a.a.
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. Recombinant human MT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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 CPSGGSCTCA DSCKCEGCKC TSCKKSCCSC CPAECEKCAK DCVCKGGEAA EAEAEKCSCC Q
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store

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	at -20C or -70C. 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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