Recombinant Human MT3 Protein, GST-tagged

Cat. No. MT3-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human MT3 with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
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. This gene family member displays tissue-specific expression, and contains a threonine insert near its N-terminus and a glutamate-rich hexapeptide insert near its C-terminus relative to the proteins encoded by other gene family members. It plays an important role in zinc and copper homeostasis, and is induced under hypoxic conditions. The encoded protein is a growth inhibitory factor, and reduced levels of the protein are observed in the brains of individuals with some metal-linked neurodegenerative disorders such as Alzheimer's disease.
Form	Powder
AA Sequence	MDPETCPCPSGGSCTCADSCKCEGCKCTSCKKSCCSCCPAECEKCAKDCVCKGG EAAEAEAEKCSCCQ
Purity	95%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder. Short-term storage: Store at 2-8 centigrade for (1-2 weeks).

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	Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Storage Buffer	The purified protein was Lyophilized from sterile PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Reconstitution	Reconstitute at 0.25 ḡ/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name	MT3
Official Symbol	MT3 metallothionein 3 [Homo sapiens (human)]
Synonyms	MT3; metallothionein 3; GIF; GIFB; GRIF; ZnMT3; metallothionein-3; growth inhibitory factor; metallothionein 3 (growth inhibitory factor (neurotrophic)); metallothionein-III
Gene ID	4504
mRNA Refseq	NM_005954
Protein Refseq	NP_005945

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