

## Product datasheet for **AR51355PU-N**

### **Metallothionein-3 (1-68, His-tag) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Metallothionein-3 (1-68, His-tag) human recombinant protein, 0.5 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MGSMDPETCP CPSGGSTCA DSCCKCEGCKC TSCKKSCCSC CPAECEKCAK DCVCKGGEAA EAEAECSCC Q
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	9.3 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human MT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_005945</a>
<b>Locus ID:</b>	4504
<b>UniProt ID:</b>	<a href="#">P25713</a> , <a href="#">A0A024R6R7</a>
<b>Cytogenetics:</b>	16q13
<b>Synonyms:</b>	GIF; GIFB; GRIF; ZnMT3



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**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. 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. [provided by RefSeq, Sep 2017]

**Product images:**