

Product datasheet for **AR51355PU-S**

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

Product data:

Product Type:	Recombinant Proteins
Description:	Metallothionein-3 (1-68, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMDPETCP CPSGGSTCA DSCCKCEGCKC TSCKKSCCSC CPAECEKCAK DCVCKGGEAA EAEAECSCC Q
Tag:	His-tag
Predicted MW:	9.3 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_005945
Locus ID:	4504
UniProt ID:	P25713 , A0A024R6R7
Cytogenetics:	16q13
Synonyms:	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: