

---

## Product Data Sheet

---

Product Name: MT3 Human  
 Cat. No.: GP23969  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GIF; GIFB; GRIF; ZnMT3; Metallothionein-3; MT-3; Growth inhibitory factor; Metallothionein-III; MT-III; MT3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDPETCP CPSGGSTCA DCKCEGCKC TCKKSCCSC CPAECEKCAK DCVCKGGEEA EAEAEKSCC Q.		
Formulation	The MT3 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

### Introduction

Metallothionein 3 (MT3) contains 3 zinc and 3 copper atoms per polypeptide chain and a minor amount of cadmium. MT3 inhibits survival and neurite formation of cortical neurons in vitro. MT3 also binds heavy metals.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MT3 Human Recombinant produced in E. coli is a single polypeptide chain containing 91 amino acids (1-68) and having a molecular mass of 9.3kDa (molecular size on SDS-PAGE will appear higher). MT3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA