

Recombinant human MT3 protein

Catalog Number: ATGP2535

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-68aa

UniProt No.

P25713

NCBI Accession No.

NP_005945.1

Alternative Names

Metallothionein 3, Metallothionein 3, GIF, GIFB, GRIF, ZnMT3

PRODUCT SPECIFICATION

Molecular Weight

9.3 kDa (91aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>MDPETCP CPSGGGCTCA DSCKCEGCKC TSCKKSCCSC CPAECEKCAK

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DCVCKGGEEA EAEAECSCC Q

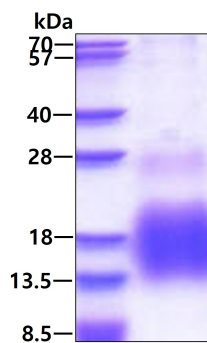
General References

uchida Y., et al. (1991) Neuron. 7:337-347

Palmiter R.D., et al. (1992) Proc. Natl. Acad. Sci. u.S.A. 89:6333-6337

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.