

# Recombinant human MCTS1 protein

Catalog Number: ATGP1995

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-181aa

### UniProt No.

Q9ULC4

### NCBI Accession No.

NP\_054779

### Alternative Names

Malignant T cell amplified sequence 1, MCT-1, MCT1

## PRODUCT SPECIFICATION

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### Molecular Weight

22.9 kDa (204aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 95% 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

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### Description

Malignant T cell amplified sequence 1, also known as MCTS1, plays a role as translation enhancer; Recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile; up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant. Recombinant human MCTS1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMFKKFDE KENVSNCIQL KTSVIKGIKN QLIEQFPGIE PWLNQIMPCK DPVKIVRCHE  
HIEILTVNGE LLFFRQREGP FYPTLRLH K YPFILPHQV DKGAIKFVLS GANIMCPGLT SPGAKLYPAA VDTIVAIMAE  
GKQHALCVGV MKMSAEDIEK VNKGIGIENI HYLNDGLWHM KTYK

### General References

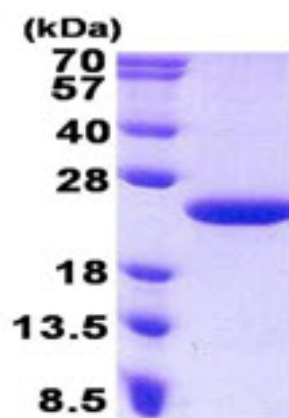
Herbert G.B., et al. (2001) *Oncogene*. 20:6777-6783

Shi B., et al. (2003) *Blood*. 102:297-302

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)