

# Recombinant human MUTED protein

Catalog Number: ATGP1631

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-187aa

### UniProt No.

Q8TDH9

### NCBI Accession No.

NP\_958437

### Alternative Names

Muted homolog, Mu

## PRODUCT SPECIFICATION

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### Molecular Weight

24 kDa (210aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 40% glycerol, 2mM DTT, 0.1mM PMSF, 1mM EDTA

### Purity

> 90% 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

Muted homolog, also known as MuTED, is involved in the development of lysosome related organelles, such as melanosomes and platelet dense granules. MuTED interacts with pallidin, dystrobrevin binding protein 1 and CNO/cappuccino. It is part of the biogenesis of lysosome related organelles complex 1 (BLOC1). Also, MuTED is ubiquitously expressed with higher levels in brain, bone marrow, kidney, and liver and lower levels in skeletal muscle. Recombinant human MuTED 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 SSGLVPRGSH MGSMMSGGTE TPVGCEAAPG GGSKKRDSLQ TAGSAHLLK DLGEIHSRL DHRPVIQGET  
RYFVKEFEK RGLREMRVLE NLKNMIHETN EHTLPKCRDT MRDLSLQVLQ RLQAANDSVC RLQREQERK KIHSDHLVAS  
EKQHMLQWDN FMKEQPNKRA EVDEEHRKAM ERLKEQYAEM EKDLAKFSTF

### General References

Ciciotte S L., et al. (2003) Blood. 101: 4402-4407  
Starcevic M., et al. (2004) J Biol Chem. 279: 28393-28401.

## DATA

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### SDS-PAGE

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

