PRODUCT INFORMATION

Expression system E.coli

Domain 1-187aa

UniProt No. Q8TDH9

NCBI Accession No. NP_958437

Alternative Names Muted homolog, Mu

PRODUCT SPECIFICATION

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

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.



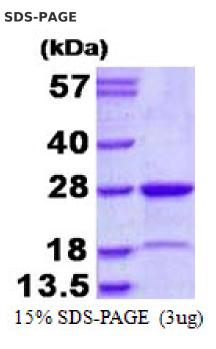
Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMSGGGTE TPVGCEAAPG GGSKKRDSLG TAGSAHLIIK DLGEIHSRLL DHRPVIQGET RYFVKEFEEK RGLREMRVLE NLKNMIHETN EHTLPKCRDT MRDSLSQVLQ RLQAANDSVC RLQQREQERK 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



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