

Recombinant human SURF1 protein

Catalog Number: ATGP0451

PRODUCT INFORMATION

Expression system

E.coli

Domain

80-273aa

UniProt No.

Q15526

NCBI Accession No.

NP_003163

Alternative Names

Surfeit 1, Surfeit 1 SuRF 1, SuRF1, Surfeit locus protein 1, SURF1 cytochrome c oxidase assembly factor, SHY1

PRODUCT SPECIFICATION

Molecular Weight

24.3 kDa (215aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1 M NaCl.

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

Description

SuRF1, also known as surfeit 1, is a member of the SuRF1 family, which includes the related yeast protein SHY1 and rickettsial protein RP733. This protein is localized to the inner mitochondrial membrane and thought to be involved in the biogenesis of the cytochrome c oxidase complex. Defect in SuRF1 is a cause of Leigh syndrome, a severe neurological disorder that is commonly associated with systemic cytochrome c oxidase deficiency. Recombinant SuRF1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MQVQRRKWKL NLIAELESRV LAEPVPLPAD PMELKNLEYR PVKVRGCFDH SKELYMMPRT
MVDPVREARE GGLISSSTQS GAYVVTPFHC TDLGVTILVN RGFVPRKKVN PETRQKGQIE GEVDLIGMVR LTETRQPFVP
ENNPERNHWH YRDLEAMARI TGAEPFIDA NFQSTVPGGP IGGQTRVTLR NEHLQ

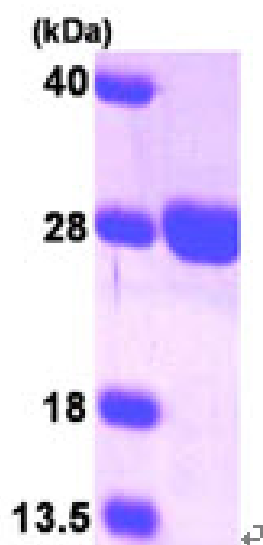
General References

Pequignot MO., et al. (2001) Hum Mutat. 17(5):374-81.

Zhu Z., et al. (1998) Nat Genet. 20(4):337-43.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)