

SURF1, 80-273aa, Human, His tag, E.coli

Cat.NO.: TP04101

3th Edition

Synonyms:, Surfeit 1 SURF 1, SURF1, Surfeit locus protein 1,

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.

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

Molecular Weight: 24.3 kDa (215aa), confirmed by MALDI-TOF.

Sequences:

MGSSHHHHHSSGLVPRGSHMQVQRRKWKLNLIAELESRVLAEPVPLPADPMELKNLEYRPVKVRGCFDHSKEL
YMMPRMTMVDPVREAREGGLISSSTQSGAYVVTPFHCTDLGVTLVNRGFVPRKKVNPETRQKQGQIEGEVDLIGMVR
LTETRQPFVPENNPERNHWHYRDLEAMARITGAEPIDANFQSTVPGGPIGGQTRVTLRNEHLQ

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.