

## SURF1 Human

**Description:** Surfeit-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 215 amino acids (80-273 a.a.) and having a molecular mass of 24.3 kDa. The Surfeit-1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-771

For research use only.

**Synonyms:** SURF1, SURF-1, Surfeit locus protein 1, Surfeit 1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MQVQRRKWKL NLIAELESRV  
LAEPVLPAD PMELKNLEYR PVKVRGCFDH SKELYMPRT MVDPVREARE GGLISSSTQS  
GAYVVTPFHC TDLGVTILVN RGFVPRKKVN PETRQKGQIE GEVDLIGMVR LTETRQPFVP  
ENNPENHWH YRDLEAMARI TGAEPFIDA NFQSTVPGGP IGGQTRVTLR NEHLQ.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The Surfeit-1 solution contains 20 mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 20% glycerol.

### Stability:

Surfeit-1 although stable 4C for 4 weeks, should be stored desiccated below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

SURF1 plays a role in the biogenesis of the COX complex. SURF1 is found in the inner mitochondrial membrane and takes part in the biogenesis of the cytochrome c oxidase complex. SURF1 shares a bidirectional promoter with SURF2 on the opposite strand. Defects in this SURF1 cause Leigh syndrome, a rigorous neurological disorder that is generally associated with systemic cytochrome c oxidase deficiency.

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