

# Recombinant human SIL1 protein

Catalog Number: ATGP1580

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

32-461aa

### UniProt No.

Q9H173

### NCBI Accession No.

NP\_071909

### Alternative Names

Nucleotide exchange factor SIL1, BAP, MSS, uLG5

## PRODUCT SPECIFICATION

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### Molecular Weight

50 kDa (439aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### 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

Nucleotide exchange factor, also known as SIL1, is a resident endoplasmic reticulum (ER), N-linked glycoprotein with an N-terminal ER targeting sequence, 2 putative N-glycosylation sites, and a C-terminal ER retention signal. This protein functions as a nucleotide exchange factor for another unfolded protein response protein. Mutations in this gene have been associated with Marinesco-Sjogren syndrome. Recombinant human SIL1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

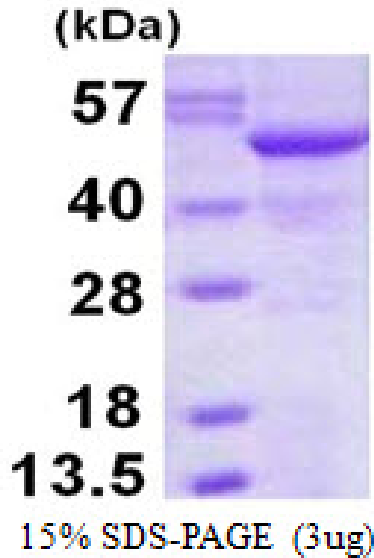
MHQNLKEFAL TNPEKSSTKE TERKETKAE ELD AEVLEVF HPTHEWQALQ PGQAVPAGSH VRLNLQTGER EAKLQYEDKF  
RNNLKGKRLD INTNTYTSQD LKSALAKFKE GAEMESSKED KARQAEVKRL FRPIEELKGD FDELNVVIET DMQIMVRLIN  
KFNSSSSSSLE EKIAALFDLE YYVHQMDNAQ DLLSFGGLQV VINGLNSTEP LVKEYAAFVL GAAFSSNPKV QVEAIEGGAL  
QKLLVILATE QPLTAKKKVL FALCSLLRHF PYAQRQFLKL GGLQVLR TLV QEKGT EVLAV RVVTLLYDLV TEKMFAEEEE  
ELTQEMSPEK LQQYRQVHLL PGLWEQGWCE ITAHL LALPE HDAREKVLQT LGVLLTTCRD RYRQDPQLGR TLASLQAEYQ  
VLASLELQDG EDEGYFQELL GSVNSLLKEL RLEHHHHHH

## General References

Chung KT., et al. (2002) J Biol Chem. 277(49):47557-63.  
Senderek J., et al. (2005) Nat Genet. 37(12): 1312-4.

## DATA

### SDS-PAGE



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