Recombinant human SIL1 protein

Catalog Number: ATGP1580

PRODUCT INFORMATION

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

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

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

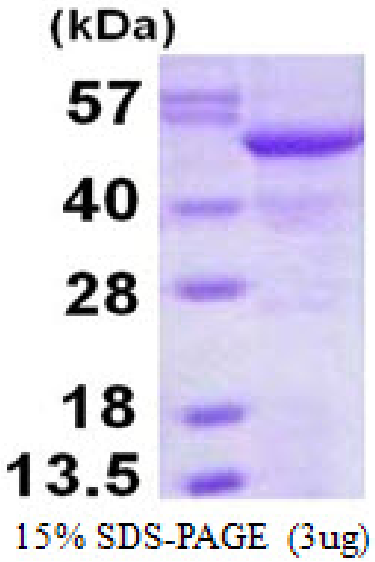
MHQNLKEFAL TNPEKSSTKE TERKETKAEE ELDAEVLEVF HPTHEWQALQ PGQAVPAGSH VRLNLQTGER EAKLQYEDKF RNNLKGKRLD INTNTYTSQD LKSALAKFKE GAEMESSKED KARQAEVKRL FRPIEELKKD FDELNVVIET DMQIMVRLIN KFNSSSSSLE EKIAALFDLE YYVHQMDNAQ DLLSFGGLQV VINGLNSTEP LVKEYAAFVL GAAFSSNPKV QVEAIEGGAL QKLLVILATE QPLTAKKKVL FALCSLLRHF PYAQRQFLKL GGLQVLRTLV QEKGTEVLAV RVVTLLYDLV TEKMFAEEEA ELTQEMSPEK LQQYRQVHLL PGLWEQGWCE ITAHLLALPE 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.