

Recombinant Human SIL1 Homolog, Endoplasmic Reticulum Chaperone (*S. cerevisiae*), His-tagged

Cat. No. SIL1-6832H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIL1 protein, fused to His-tag at C-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E. coli</i>
ProteinLength	32-461aa
Description	SIL1 is a resident endoplasmic reticulum, 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.
Molecular Mass	50 kDa (439aa)
AA Sequence	MHQNLKEFAL TNPEKSSTKE TERKETKAEELDAEVLEVF HPTHEWQALQ PGQAVPAGSH VRLNLQTGER EAKLQYEDKF RNNLKGKRLD INTNTYTSQD LKSALAKFKE GAEMESSKED KARQAEVKRL FRPIEELKGD FDELNVVIET DMQIMVRLIN KFNSSSSSLE EKIAALFDLE YYVHQMDNAQ DLLSFGGLQV VINGLNSTEP LVKEYAAFLV GAAFSSNPKV QVEAIEGGAL QKLLVILATE

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QPLTAKKKVL FALCSLLRHF PYAQRQFLKL GGLQVLRTLQV QEKGTETVLAV
 RVVTLTYDLV TEKMFAEEEA ELTQEMSPEK LQQYRQVHLL PGLWEQGWCE
 ITAHLALPE HDAREKVLQT LGVLLTTCRD RYRQDPQLGR TLASLQAEYQ
 VLASLELQDG EDEGYFQELL GSVNSLLKEL RLEHHHHHH

Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	SIL1 SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae) [Homo sapiens]
Official Symbol	SIL1
Synonyms	SIL1; SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae); Marinesco Sjogren syndrome , MSS; nucleotide exchange factor SIL1; BAP; ULG5; BiP-associated protein; MSS;
Gene ID	64374
mRNA Refseq	NM_001037633
Protein Refseq	NP_001032722

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MIM	608005
UniProt ID	Q9H173
Chromosome Location	5q31
Pathway	Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem;
Function	binding; unfolded protein binding;

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