Nucleotide Exchange Factor SIL1 (SIL1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nucleotide exchange factor SIL1 (SIL1), Recombinant Protein
Full Product Name	Recombinant Human Nucleotide exchange factor SIL1 (SIL1)
Product Gene Name	SIL1 recombinant protein
Product Synonym Gene Name	SIL1
Sequence	HQNLKEFALT NPEKSSTKET ERKETKAEEE LDAEVLEVFH PTHEWQALQP GQAVPAGSHV RLNLQTGERE AKLQYEDKFR NNLKGKRLDI NTNTYTSQDL KSALAKFKEG AEMESSKEDK ARQAEVKRLF RPIEELKKDF DELNVVIETD MQIMVRLINK FNSSSSSLEE KIAALFDLEY YVHQMDNAQD LLSFGGLQVV INGLNSTEPL VKEYAAFVLG AAFSSNPKVQ VEAIEGGALQ KLLVILATEQ PLTAKKKVLF ALCSLLRHFP YAQRQFLKLG GLQVLRTLVQ EKGTEVLAVR VVTLLYDLVT EKMFAEEEAE LTQEMSPEKL QQYRQVHLLP GLWEQGWCEI TAHLLALPEH DAREKVLQTL GVLLTTCRDR YRQDPQLGRT LASLQAEYQV LASLELQDGE DEGYFQELLG SVNSLLKELR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	52,085 Da
Sequence Positions	32-461, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	248800
3D Structure	ModBase 3D Structure for Q9H173
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SIL1 recombinant protein	This gene encodes 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. Alternate transcriptional splice variants have been characterized.
Other Notes	Small volumes of SIL1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SIL1 purchase	MBS1356546 is a recombinant protein targeting SIL1. Also known as Recombinant Human Nucleotide exchange factor SIL1 (SIL1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIL1. It may not necessarily be applicable to this product.

NCBI GI #	83641896
NCBI GeneID	64374
NCBI Accession #	NP_001032722.1
UniProt Primary Accession #	Q9H173
UniProt Secondary Accession #	Q8N2L3; D3DQC2
UniProt Related Accession #	Q9H173
GenBank Nucleotide #	NM_001037633.1
NCBI Official Full Name	nucleotide exchange factor SIL1
NCBI Official Synonym Full Names	SIL1 nucleotide exchange factor
NCBI Official Symbol	SIL1
NCBI Official Synonym Symbols	BAP; MSS; ULG5
UniProt Protein Name	Nucleotide exchange factor SIL1
UniProt Synonym Protein Names	BiP-associated protein; BAP
Protein Family	Nucleotide exchange factor
UniProt Gene Name	SIL1
UniProt Synonym Gene Names	BAP
NCBI Protein Information	nucleotide exchange factor SIL1
UniProt Comments for SIL1	Required for protein translocation and folding in the endoplasmic reticulum (ER). Functions as a nucleotide exchange factor for the ER lumenal chaperone HSPA5.
Research Articles on SIL1	**1.** SIL1-depleted HEK293 cells are an appropriate model to identify proteins modulated by SIL1 expression level.
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