



# Recombinant Human Single-minded homolog 1 (SIM1)

<b>Product Code</b>	CSB-EP021325HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P81133
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MKEKSKNAAR TRREKENSEF YELAKLLPLP SAITSQLDKA SIIRLTTSYL  KMRVVFPEGL GEAWGHSSRT SPLDNVREL GSHLLQTLTG FIFVVPDGGK  IMYISETASV HLGLSQVELT GNSIYEYIHP ADHDEMTAVL TAHQPYHSHF  VQYEIERSF FLRMKCVLAK RNAGLTCGGY KVIHCSGYLK IRQYSLDMSP  FDGCYQNVGL VAVGHSPLPPS AVTEIKLHSN MFMFRASLDM KLIFLDSRVA  ELTGYEPQDL IEKTLYHHVH GCDTFHLRCA HLLLLVKGQV TTKYYRFLAK  HGGWVWVQSY ATIVHNSRSS RPHCIVSVNY VLTDTTEYKGL QLSLDQISAS  KPAFSYTSSS TPTMTDNRKG AKSRLSSSKS KSRTSPYPQY SGFHTERSES  DHDSQWGGSP LTDTASPQLL DPADRPQSQH DASCAYRQFS  DRSSLCYGFA LDHSRLVEER HFHTQACEGG RCEAGRYFLG  TPQAGREPWW GSRAALPLTK ASPESREAYE NSMPHIASVH RIHGRGHWDE  DSVVSSPDPG SASESGDRYR TEQYQSSPHE PSKIETLIRA TQQMIKEEEN  RLQLRKAPSD QLASINGAGK KHSLCFANYQ QPPPTGEVCH GSALANTSPC  DHIQQREGKM LSPHENDYDN SPTALSRIS PNSDRISKSS LILAKDYLSH  DISPHQTAGD HPTVSPNCFG SHRQYFDKHA YTLTGYALEH LYDSETIRNY  SLGCNGSHFD VTSHLRMQPD PAQGHKGTSV IITNGS</p>
<b>Source</b>	E.coli
<b>Target Names</b>	SIM1
<b>Protein Names</b>	Recommended name: Single-minded homolog 1 Alternative name(s): Class E basic helix-loop-helix protein 14 Short name= bHLHe14
<b>Expression Region</b>	1-766
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis, it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or mental retardation



of Down syndrome.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.