

## Recombinant Human INSIG1 protein, His-GST-tagged

Cat. No. INSIG1-129H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human INSIG1 protein(NP_001333519.1)(Met1~Arg87), fused to His and GST tag at N-terminus, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1~Arg87
<b>Description</b>	This gene encodes an endoplasmic reticulum membrane protein that regulates cholesterol metabolism, lipogenesis, and glucose homeostasis. The encoded protein has six transmembrane helices which contain an effector protein binding site. It binds the sterol-sensing domains of sterol regulatory element-binding protein (SREBP) cleavage-activating protein (SCAP) and 3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMG-CoA reductase), and is essential for the sterol-mediated trafficking of these two proteins. It promotes the endoplasmic reticulum retention of SCAP and the ubiquitin-mediated degradation of HMG-CoA reductase. Alternative splicing results in multiple transcript variants.
<b>Form</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Molecular Mass</b>	39kDa(Analysis of differences refer to the manual)
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)

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<b>Purity</b>	> 90%
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in PBS or others.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">INSIG1 insulin induced gene 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">INSIG1</a>
<b>Synonyms</b>	CL6; INSIG-1 Membrane Protein
<b>Gene ID</b>	<a href="#">3638</a>
<b>mRNA Refseq</b>	<a href="#">NM_001346590.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001333519.1</a>
<b>MIM</b>	<a href="#">602055</a>
<b>UniProt ID</b>	<a href="#">O15503</a>

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