

Recombinant Human INSIG1 protein, His-GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human INSIG1 protein(NP_001333519.1)(Met1~Arg87), fused to His and GST tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Arg87
Description	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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	39kDa(Analysis of differences refer to the manual)
Endotoxin	<1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90%
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	INSIG1 insulin induced gene 1 [Homo sapiens (human)]
Official Symbol	INSIG1
Synonyms	CL6; INSIG-1 Membrane Protein
Gene ID	3638
mRNA Refseq	NM_001346590.2
Protein Refseq	NP_001333519.1
MIM	602055
UniProt ID	O15503

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