Recombinant Human Insulin Receptor Substrate 1, GST-tagged

Cat. No. IRS1-1467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IRS1 (1-355) was expressed in*E. coli*cells using an N-terminal GST tag. MW = 65kDa.
Species	Human
Source	E.coli
ProteinLength	1-355 a.a.
Description	IRS1 is the substrate for the insulin tyrosine kinase receptor and is found in a variety of insulin-responsive cells and tissues. IRS1 protein has no intrinsic enzymatic activity but acts as a docking protein, via the SH2 domains, for mediating the insulin downstream signaling events. IRS1 has been shown to associate with the 14-3-3 family of proteins and this could play a role in the regulation of insulin sensitivity by interrupting the association between the insulin receptor and IRS1. IRS1 may be associated with colorectal cancer and diet and related factors may affect the risk by modifying plasma insulin levels. Thus, the inter-individual variation in insulin signaling mediated by IRS1 may play a plausible role in the development of colorectal cancer.
Sequence	1-355.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70℃. For optimal storage, aliquot target into smaller quantities

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	after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	IRS1 insulin receptor substrate 1 [Homo sapiens]
Synonyms	IRS1; insulin receptor substrate 1; HIRS-1; IRS-1
Gene ID	3667
mRNA Refseq	NM_005544
Protein Refseq	NP_005535
MIM	147545
UniProt ID	P35568
Chromosome Location	2q36
Pathway	Adipocytokine signaling pathway; Insulin signaling pathway; Neurotrophin signaling pathway; Type II diabetes mellitus; Signaling by Insulin receptor; Signalling by NGF
Function	SH2 domain binding; insulin receptor binding; insulin-like growth factor receptor activity; insulin-like growth factor receptor binding; phosphoinositide 3-kinase binding; phosphoinositide 3-kinase binding; protein binding; protein kinase C binding; signal transducer activity; transmembrane receptor protein tyrosine kinase docking protein activity

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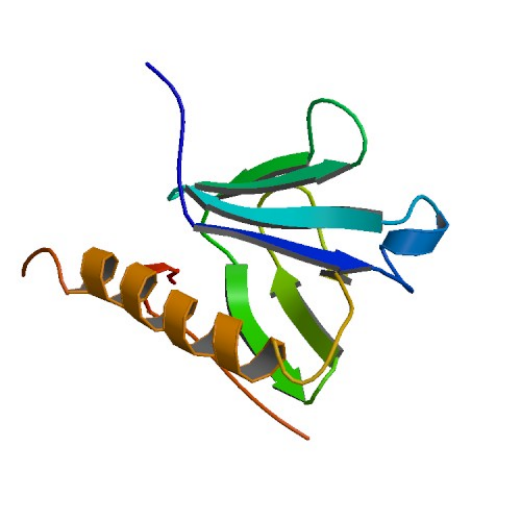
PDB rendering based on 1irs.



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