Active Recombinant Human InsR, GST-tagged

Cat. No. INSR-1416H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human InsR (1011-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1011 aa-end
Description	InsR is the insulin receptor tyrosine kinase that is involved in insulin signaling. InsR is post-translationally cleaved into two chains, α and β? that are covalently linked. Binding of insulin to the InsR stimulates glucose uptake. Insulin receptor signaling helps to maintain fuel homeostasis and prevent diabetes. Studies have shown that a conditional knockout of insulin receptor substrate 2 (IRS2) in mouse pancreas β cells and parts of the brain--including the hypothalamus--increased appetite, lean and fat body mass, linear growth, and insulin resistance that progressed to diabetes. InsR signaling also increases the regeneration of adult β cells and the central control of nutrient homeostasis.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	2683 nmol/min/mg
Molecular Mass	~70 kDa

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Purity	>80%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	INSR insulin receptor [Homo sapiens]
Official Symbol	INSR
Synonyms	INSR; insulin receptor; CD220; IR; HHF5;
Gene ID	3643
mRNA Refseq	NM_000208
Protein Refseq	NP_000199
MIM	147670
UniProt ID	P06213
Chromosome Location	19p13.3-p13.2
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem;

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	Aldosterone-regulated sodium reabsorption, conserved biosystem; IRS activation, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem;
Function	3-phosphoinositide-dependent protein kinase binding; ATP binding; GTP binding; PTB domain binding; SH2 domain binding; insulin binding; insulin binding; insulin binding; insulin receptor substrate binding; insulin-activated receptor activity; insulin-like growth factor I binding; insulin-like growth factor II binding; insulin-like growth factor receptor binding; lipoic acid binding; nucleotide binding; phosphatidylinositol 3-kinase binding; protein binding; protein complex binding; protein domain specific binding; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity;

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