

Recombinant Human Insulin Receptor, GST-tagged, Active

Cat. No. INSR-331H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human InsR (1011-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW = 70 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	1011-end a.a.
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.
Sequence	1011-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	INSR insulin receptor [Homo sapiens]
Synonyms	INSR; insulin receptor; HHF5; CD220; EC 2.7.10.1; IR; CD220 antigen; Insulin receptor subunit alpha; Insulin receptor subunit beta
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; Insulin signaling pathway; Type II diabetes mellitus
Function	3-phosphoinositide-dependent protein kinase binding; ATP binding; GTP binding; PTB domain binding; SH2 domain binding; insulin binding; insulin receptor activity; insulin receptor substrate binding; insulin-like growth factor I binding; insulin-like growth factor II binding; insulin-like growth factor receptor binding; lipoic acid binding; manganese ion binding; metal ion binding; nucleotide binding; phosphoinositide 3-kinase binding; protein complex binding; protein phosphatase binding; receptor activity; receptor signaling protein tyrosine kinase activity; transferase activity

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