

Recombinant Human INSR

Cat. No. INSR-29493TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1011-1382 of Human Insulin Receptor was expressed by baculovirus in Sf9 insect cells using an N-terminal tag, 70kDa.
Species	Human
ProteinLength	1011-1382 a.a.
Description	After removal of the precursor signal peptide, the insulin receptor precursor is post-translationally cleaved into two chains (alpha and beta) that are covalently linked. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. Two transcript variants encoding different isoforms have been found for this gene.
Tissue specificity	Found as a hybrid receptor with IGF1R in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen and placenta (at protein level). Isoform Long and isoform Short are expressed in the peripheral nerve, kidney, liver, striated m
Biological activity	The Specific activity of INSR-29493TH was determined to be 2683nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.Contains 3 fibronectin type-III domains.Contains 1 protein kinase domain.
GENE INFORMATION	
Gene Name	INSR insulin receptor [Homo sapiens]
Official Symbol	INSR
Synonyms	INSR; insulin receptor; CD220;
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; Aldosterone-regulated sodium reabsorption, conserved biosystem; IRS activation, organism-specific biosystem;

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Function

3-phosphoinositide-dependent protein kinase binding; ATP binding; GTP binding;
PTB domain binding; SH2 domain binding;

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