

Recombinant Human INSR

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

SPECIFICATION

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|----------------------------|--|
| 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: None Constituents: 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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