

Recombinant Human INSR

Cat. No. INSR-27625TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 999-1362 of Human Insulin Receptor with N-terminal proprietary tag expressed in a Baculovirus expression system, 67 kDa.
Species	Human
ProteinLength	999-1362 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	Specific Activity: 43.3 pmol/min/μg. Assay condition: The enzyme reaction was carried out for 1h at room temperature in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl ₂ , 1 mM EDTA, 0.01% BRIJ- 35 and 200 uM of ATP. Substrate : 4 uM Tyr peptide 1
Form	Liquid

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Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated 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,

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organism-specific biosystem;

Function

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

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