

Recombinant Human IGF1R, His-tagged

Cat. No. IGF1R-29115TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, human IGF1 Receptor, cytoplasmic domain. Expressed by baculovirus in Sf9 insect cells using an N-terminal His tag, 53kDa.
Species	Human
Description	This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival.
Conjugation	HIS
Tissue specificity	Found as a hybrid receptor with INSR in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen and placenta (at protein level). Expressed in a variety of tissues.
Biological activity	Specific activity was 263 nmol /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
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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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 IGF1R insulin-like growth factor 1 receptor [Homo sapiens]

Official Symbol IGF1R

Synonyms IGF1R; insulin-like growth factor 1 receptor; CD221; IGFIK; IGFR; JTK13; MGC18216;

Gene ID 3480

mRNA Refseq NM_000875

Protein Refseq NP_000866

MIM 147370

Uniprot ID P08069

Chromosome Location 15q26.3

Pathway Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Apoptosis, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Endocytosis, organism-specific biosystem;

Function ATP binding; identical protein binding; insulin binding; insulin receptor binding; insulin

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receptor substrate binding;

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