

Recombinant Human Insulin-like Growth Factor 1 Receptor, His-tagged, Active

Cat. No. IGF1R-330H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IGF1R (960-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal His tag. MW = 53 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	960-end a.a.
Description	IGF1R (Insulin-like Growth Factor 1) is a transmembrane tyrosine kinase receptor that is activated by IGF-1 and by the related growth factor IGF-2. IGF1R mediates the effects of IGF-1 and plays an important role in growth and anabolic effects in adults. The IGF1R is implicated in several cancers, most notably breast cancer where it is highly overexpressed and functions as an anti-apoptotic agent by enhancing cell survival. In many instances, the anti-apoptotic properties of IGF1R overexpression allows cancerous cells to resist the cytotoxic properties of chemotherapeutic drugs or radiotherapy.
Sequence	960-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

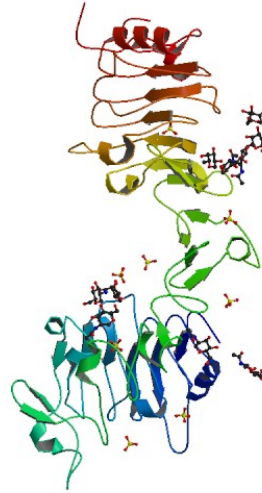
Gene Name	IGF1R insulin-like growth factor 1 receptor [Homo sapiens]
Synonyms	IGF1R; insulin-like growth factor 1 receptor; IGFR; CD221; IGFI; JTK13; MGC18216; MGC142170; MGC142172; soluble IGF1R variant 1; soluble IGF1R variant 2; EC 2.7.10.1; CD221; IGF-I receptor; CD221 antigen; Insulin-like growth factor 1 receptor alpha chain; Insulin-like growth factor 1 receptor beta chain
Gene ID	3480
mRNA Refseq	NM_000875
Protein Refseq	NP_000866
MIM	147370
UniProt ID	P08069
Chromosome Location	15q26.3
Pathway	Adherens junction; Colorectal cancer; Endocytosis; Focal adhesion; Glioma; Long-term depression; Melanoma; Pathways in cancer; Prostate cancer
Function	ATP binding; identical protein binding; insulin binding; insulin receptor binding; insulin receptor substrate binding; insulin-like growth factor I binding; insulin-like growth factor receptor activity; nucleotide binding; phosphoinositide 3-kinase binding; receptor activity; transferase activity

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The first three domains of insulin-like growth factor 1 receptor. PDB rendering based on 1igr.



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