

Recombinant Human IGF1R

Cat. No. IGF1R-29118TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 930-1337 of the cytoplasmic domain of Human IGF1 Receptor beta subunit fused with a proprietary tag; expressed in a baculovirus infected Sf9 cells, 72.3 kDa.
Species	Human
ProteinLength	930-1337 a.a.
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.
Biological activity	Specific activity: ~100 nmol/min/mg at 25°C using poly(Glu:Tyr)4:1 substrate. Reaction conditions are 50 mM Tris, pH 7.5, 5 mM MgCl ₂ , 5 mM MnCl ₂ , 1 mM DTT, 250 μM ATP. The kinase concentration was 0.5-1 μM and poly-L-lysine was added in equimolar amounts t
Form	Liquid
Storage buffer	Preservative: None Constituents: 50mM Tris, 1mM DTT, pH 7.5
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

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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; IGFIR; 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 receptor substrate binding;

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