

Recombinant Human Insulin-like Growth Factor 1 Receptor, GST-His

Cat. No. IGF1R-2654H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IGF-1R was fused at the N-terminus to a GST-His6-thrombin cleavage site sequence and expressed in <i>S. frugiperda</i> insect cells using a baculovirus expression system. MW = 76532 Da.
Species	Human
Source	<i>S. frugiperda</i>
Description	IGF-1R belong to the tyrosine kinase receptor family that mediates cell survival and growth in response to its ligands, IGF-1 and IGF-2. It is also involved in the proliferation of transformed cells.
Form	Liquid. In 100 mM NaCl, 50 mM Tris-HCL, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.
Specific Activity	≥45 U/mg protein.
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 nmol phosphate to Poly(Glu,Tyr)4:1 per min at 30°C using variable concentrations of ATP (0.1-2.52 μM).
Storage	≤ -70°C. Avoid freeze/thaw.

GENE INFORMATION

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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

PDB rendering based
on 1igr.

