

# Recombinant Human Insulin-Like Growth Factor 1 Receptor

Cat. No. IGF1R-1631H    Lot. No. (See product label)

## SPECIFICATION

|                              |   |
|------------------------------|---|
| <b>Species</b>               | Human   |
| <b>Source</b>                | Mammalian Cells   |
| <b>Description</b>           | Insulin-like Growth Factor 1 (IGF-1) Receptor is a transmembrane tyrosine kinase that is frequently overexpressed by tumours, and mediates proliferation and apoptosis protection. IGF-1 receptor may be a central regulator of mammalian lifespan <sup>2</sup> and when activated, it results in survival and proliferation in mitosis-competent cells, and growth (hypertrophy) in tissues such as skeletal muscle and cardiac muscle. IGF1R is now an attractive anti-cancer treatment target. |
| <b>State Of Matter</b>       | Lyophilized.  |
| <b>Purity</b>                | >95% by SDS Page and analyzed by silver stain.  |
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.  |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human IGF-I sR is Mr 81, 23, 104 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 150, 120, 48 kDa.   |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.   |

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## GENE INFORMATION

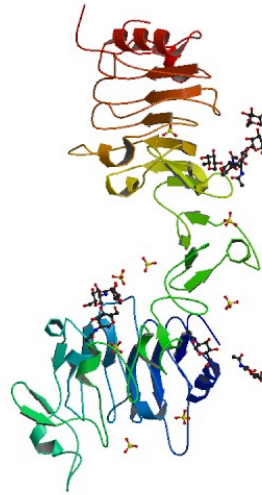
|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | IGF1R insulin-like growth factor 1 receptor [ Homo sapiens ]   |
| <b>Synonyms</b>            | IGF1R; insulin-like growth factor 1 receptor; IGFR; CD221; IGFI; JTK13; MGC18216; MGC142170; MGC142172; soluble 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 |
| <b>Gene ID</b>             | 3480   |
| <b>mRNA Refseq</b>         | NM_000875  |
| <b>Protein Refseq</b>      | NP_000866  |
| <b>MIM</b>                 | 147370   |
| <b>UniProt ID</b>          | P08069   |
| <b>Chromosome Location</b> | 15q26.3  |
| <b>Pathway</b>             | Adherens junction; Colorectal cancer; Endocytosis; Focal adhesion; Glioma; Long-term depression; Melanoma; Pathways in cancer; Prostate cancer   |
| <b>Function</b>            | 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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