Recombinant Human Insulin-Like Growth Factor 1 Receptor

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

SPECIFICATION

Product Overview	
Species	Human
Source	Mammalian Cells
Description	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 lifespan2 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.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.
Molecular Weight	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.
Storage And Stability	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated 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; IGFIR; 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;

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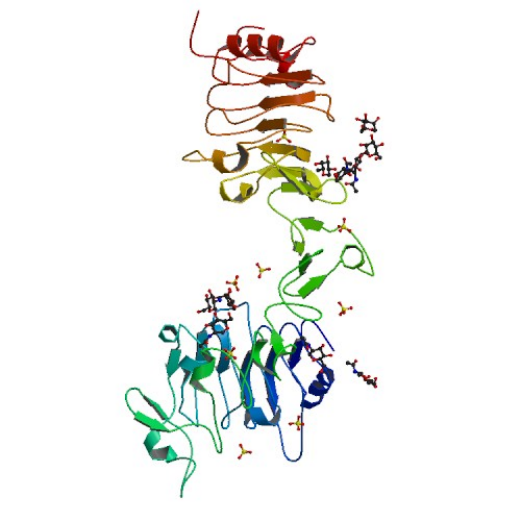
	receptor activity; transferase activity
The first three domains of insulin-like growth factor 1 receptor. PDB rendering based on 1igr.	

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