CD221/IGF1R Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD221/IGF1R, Recombinant Protein
Full Product Name	Recombinant Human CD221/IGF1R Protein, C-His
Product Gene Name	CD221/IGF1R recombinant protein
Product Synonym Names	Insulin-like growth factor 1 receptor; 2.7.10.1; Insulin-like growth factor I receptor; IGF-I receptor; CD221; Insulin-like growth factor 1 receptor alpha chain; Insulin-like growth factor 1 receptor beta chain; IGF1R
Host	Mammalian
Form/Format	Lyophilized from a solution in PBS pH7.4, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	154,793 Da
Sequence Positions	Met1-Asn932
Chromosome Location	Chromosome: 15; NC_000015.9 (99192761..99507759). Location: 15q26.3
OMIM	147370
3D Structure	ModBase 3D Structure for P08069
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD221/IGF1R recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD221/IGF1R recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CD221/IGF1R recombinant protein	MBS1578764 is a recombinant protein targeting CD221/IGF1R. Also known as Recombinant Human CD221/IGF1R Protein, C-His. Host: Mammalian.
Other Notes	Small volumes of CD221/IGF1R recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD221/IGF1R. It may not necessarily be applicable to this product.

NCBI GI #	4557665
NCBI GeneID	3480
NCBI Accession #	NP_000866.1
UniProt Primary Accession #	P08069

UniProt Secondary Accession #	Q14CV2; Q9UCC0; B1B5Y2
UniProt Related Accession #	P08069
GenBank Nucleotide #	NM_000875.3
NCBI Official Full Name	insulin-like growth factor 1 receptor
NCBI Official Synonym Full Names	insulin-like growth factor 1 receptor
NCBI Official Symbol	IGF1R
NCBI Official Synonym Symbols	IGFR; CD221; IGFIR; JTK13
UniProt Protein Name	Insulin-like growth factor 1 receptor
UniProt Synonym Protein Names	Insulin-like growth factor I receptor
UniProt Gene Name	IGF1R
UniProt Synonym Gene Names	IGF-I receptor
UniProt Entry Name	IGF1R_HUMAN
NCBI Protein Information	insulin-like growth factor 1 receptor; IGF-I receptor; soluble IGF1R variant 1; soluble IGF1R variant 2; insulin-like growth factor I receptor
NCBI Summary for CD221/IGF1R	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CD221/IGF1R	IGF1R: a receptor tyrosine kinase that binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. Functions as an anti-apoptotic agent by enhancing cell survival. Can play a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. Tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains contribute to the formation of the ligand- binding domain, while the beta chain carries the kinase domain. Interacts with PIK3R1 and with the PTB/PID domains of IRS1 and SHC1 in vitro when autophosphorylated on tyrosine residues. Mutated in rare cases of pre- and post-natal growth retardation. One SNP associated with increased human longevity. Increased expression of IGF1R and other pathway members associated with progression and malignancy in a range of cancers. Inhibitors: AG1024, AEW541. Protein type: Membrane protein, integral; Protein kinase, tyrosine (receptor); Kinase, protein; Protein kinase, TK; EC 2.7.10.1; TK group; InsR family Chromosomal Location of Human Ortholog: 15q26.3 Cellular Component: neuron projection; intracellular membrane-bound organelle; membrane; integral to plasma membrane; plasma membrane; caveola; receptor complex Molecular Function: insulin binding; identical protein binding; insulin-like growth factor binding; protein binding; insulin-like growth factor I binding; protein-tyrosine kinase activity; insulin receptor substrate binding; G-protein alpha-subunit binding; phosphoinositide 3-kinase binding; insulin-like growth factor receptor activity; insulin receptor binding; ATP binding Biological Process: phosphoinositide 3-kinase cascade; epidermis development; inactivation of MAPKK activity; protein heterooligomerization; protein amino acid autophosphorylation; exocrine pancreas development; signal transduction; regulation of JNK cascade; response to vitamin E; mammary gland development; positive regulation of MAPKKK cascade; male sex determination; positive regulation of cell proliferation; protein tetramerization; positive regulation of cytokinesis; phosphoinositide-mediated signaling; negative regulation of protein kinase B signaling cascade; positive regulation of mitosis; negative regulation of transcription factor activity; positive regulation of protein kinase B signaling cascade; axonogenesis; insulin-like growth factor receptor signaling pathway; establishment of cell polarity; insulin receptor signaling pathway; immune response; brain development; positive regulation of DNA replication; positive regulation of cell migration; negative regulation of apoptosis Disease: Insulin-like Growth Factor I, Resistance To

Research Articles on CD221/IGF1R	**1.** IGF1R overexpression in KIT/PDGFRA WT GIST could be driven by the loss-of-function of the SDH mitochondrial complex.
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