

Insulin receptor (CD220) Active Protein | INSR active protein

Human Insulin receptor Recombinant (CD220)

CATALOG #	HOST
AAA76108	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Insulin receptor (CD220); Human Insulin receptor Recombinant (CD220); Human Insulin receptor Recombinant (CD220) ; insr; insulin; INSR active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>98%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant human Insulin receptor is supplied as lyophilized 0.2 um filtered PBS solution, pH7.2.
Sequence Length	1382
Host Note	Optimized DNA sequence encoding extracellular domain of human Insulin receptor including a C-terminal polyHis tag was expressed in HEK293 cells.
Molecular Weight Note	Recombinant human INSR is a monomer protein consisting of 928 amino acid residue subunits, due to glycosylation migrates as an approximately 130kDa, 45kDa protein under reducing SDS-PAGE conditions, corresponding to the alpha and beta receptor subunits.
Biological Activity	Measured by its ability to bind recombinant human Insulin at a concentration range of 0.3-40ug/ml.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water by gently mixing a concentration not less than 0.1mg/ml. Avoid harsh shaking or vortexing.
Preparation and Storage	The lyophilized protein is stable for 1 year from date of receipt at -20°C. Upon reconstitution, the protein can be stored in working aliquots at 2-8°C for one month, or at -20°C to -70°C for twelve months, addition of a carrier protein to your working aliquots (0.1% BSA or HSA) is recommended for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for INSR active protein	Receptors CD
References	• differential endocytosis and signaling dynamics of Insulin receptor variants ir-a and ir-b .J. Cell Sci., Mar 2011; 124: 801 - 811. • Insulin receptor substrate influences female caste development in honeybees .Biol Lett, Feb 2011; 7: 112 - 115. • cannabinoids inhibit Insulin receptor signaling in pancreatic β-cells .Diabetes, Feb 2011; 10.2337/db10-1550. • a pathobiological role of the Insulin receptor in chronic lymphocytic leukemia .Clin. Cancer Res., Feb 2011; 10.1158/1078-0432.CCR-10-2058. • pdgf-induced vascular smooth muscle cell proliferation is associated with dysregulation of Insulin receptor substrates .Am J Physiol Cell Physiol, Feb 2011; 10.1152/ajpcell.00670.2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395736
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NCBI GeneID	3643
NCBI Accession #	NP_000199.2
NCBI GenBank Nucleotide #	NM_000208.2
UniProt Accession #	P06213; Q17RW0; Q59H98; Q9UCB7; Q9UCB8; Q9UCB9
NCBI Official Full Name	insulin receptor isoform Long preproprotein
UniProt Protein Name	Insulin receptor
UniProt Gene Name	INSR
UniProt Synonym Gene Names	IR
UniProt Entry Name	INSR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-host-protein-expression-may-be-lot-specific-and-can-be-subject-to-change-during-production-including-bulk-orders-insr-active-protein/insulin-receptor-cd220/76108>