

InsR (R1201Q) Recombinant Protein | InsR recombinant protein

InsR (R1201Q), Active

CATALOG # AAA73616	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

InsR (R1201Q); Active; HHF5; CD220; InsR recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for InsR recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for InsR recombinant protein	Recombinant human InsR (R1201Q)(980-1382) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_000208. InsR is the insulin receptor tyrosine kinase that is involved in insulin signaling. InsR is post-translationally cleaved into two chains, alpha and beta that are covalently linked. Binding of insulin to the InsR stimulates glucose uptake (1). Insulin receptor signaling helps to maintain fuel homeostasis and prevent diabetes. Studies have shown that a conditional knockout of insulin receptor substrate 2 (IRS2) in mouse pancreas beta cells and parts of the brain--including the hypothalamus--increased appetite, lean and fat body mass, linear growth, and insulin resistance that progressed to diabetes. InsR signaling also increases the regeneration of adult beta cells and the central control of nutrient homeostasis (2).
Product Categories/Family for InsR recombinant protein	Mutant Kinases; AKT/PKB Pathway; Cancer; Cellular Stress; ERK/MAPK Pathway; Receptor Tyrosine Kinases
References	1. Okamoto, H. et al: Transgenic rescue of insulin receptor-deficient mice. J. Clin. Invest. 2004;114(2):214-23. 2. Lin, X. et al: Dysregulation of insulin receptor substrate 2 in beta cells and brain causes obesity and diabetes. J. Clin. Invest. 2004;114(7):886-8.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_000208
Molecular Weight	72kDa

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/insr-r1201q-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73616>