# Insulin receptor (human), (recombinant) (His-tag) (GST-tag)

INSR (Insulin receptor) (CD220), is a transmembrane receptor activated by insulin. INSR exists as a tetramer consisting of two alpha and two beta subunits linked by disulfide bonds. INSR associates with downstream mediators upon binding to insulin, including IRS1 (insulin receptor substrate 1) and phosphatidylinositol 3'-kinase (PI3K). INSR is expressed in the peripheral nerve, fibroblasts, kidney, liver, skin and striated muscle. Defects in INSR are associated with insulin resistance, Donohue syndrome, noninsulin-dependent diabetes mellitus, and Rabson-Mendenhall syndrome.

## Manuals, SDS & CofA

View Online »

## Handling & Storage

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|---|---|
| **Handling** | Avoid freeze/thaw cycles. Prepare aliquots for optimal storage. |
| **Short Term Storage** | -20°C |
| **Long Term Storage** | -80°C |
| **Shipping** | Dry Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | CD220, HHF5, INSR |
| **Application Notes** | Useful for enzyme kinetics and inhibition studies and for phosphoylation of target substrates. |
| **Formulation** | Liquid. In 50 mM Tris, pH 7.4, containing 100 mM NaCl, 0.3 mM DTT and 20% glycerol. |
| **MW** | 72.3 KDa |
| **Purity** | ≥90% (SDS-PAGE) |
| **Source** | Produced in insect cells using Baculovirus expression system. The cytoplasmic domain of the human insulin receptor (aa 989-1382) is fused with an N-terminal polyhistidine-tagged GST tag at the N-terminus. |
| **UniProt ID** | P06213 |

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