

## Datasheet for ABIN7317078 Insulin Receptor Protein (INSR) (GST tag,His tag)



Overview

1

Image

Quantity:	50 µg
Target:	Insulin Receptor (INSR)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Insulin Receptor protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Human Insulin Receptor/INSR Protein (His & GST Tag)(Active)
Sequence:	Gly 989-Ser 1382
Characteristics:	A DNA sequence encoding the human INSR isoform long (NP_000199.2) cytoplasmic domain (Gly 989-Ser 1382) was fused with the N-terminal polyhistidine-tagged GST tag at the N- terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 45 nmol/min/mg using Poly(Ala,Glu,Lys,Tyr)6:2:5:1 as substrate.

## Target Details

Target:

Insulin Receptor (INSR)

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Target Details	
Alternative Name:	Insulin Receptor/INSR (INSR Products)
Background:	Background: INSR (Insulin receptor), also known as CD220, is a transmembrane receptor that is activated by insulin. INSR belongs to theprotein kinase superfamily, and exists as a tetramer consisting of two alpha subunits and two beta subunits linked by disulfide bonds. The alpha and beta subunits are encoded by a single INSR gene, and the beta subunits pass through the cellular membrane. As the receptor for insulin with tyrosine-protein kinase activity, INSR associates with downstream mediators upon binding to insulin, including IRS1 (insulin receptor substrate 1) and phosphatidylinositol 3'-kinase (PI3K). IRS-1 binding and phosphorylation eventually leads to an increase in the high affinity glucose transporter (Glut4) molecules on the outer membrane of insulin-responsive tissues. INSR isoform long and isoform short are expressed in the peripheral nerve, kidney, liver, striated muscle, fibroblasts and skin, and is found as a hybrid receptor with IGF1R which also binds IGF1 in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibrobasts, spleen and placenta. Defects in Insulin resistance (Ins resistance), leprechaunism (Donohue syndrome), and familial hyperinsulinemic hypoglycemia 5 (HHF5). It may also be associated with noninsulin-dependent diabetes mellitus (NIDDM). Synonym: CD220,HHF5,Insulin Receptor
Molecular Weight:	72.3 kDa
NCBI Accession:	NP_000199
Pathways:	NF-kappaB Signaling, RTK Signaling, AMPK Signaling, Carbohydrate Homeostasis, Regulation of Cell Size, Regulation of Carbohydrate Metabolic Process, Growth Factor Binding, Negative Regulation of Transporter Activity
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 7.4, 20 % glycerol, 0.3 mM DTT

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

-20 °C

Storage:

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Western	Blotting
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Image 1.

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