

Datasheet for ABIN6809906

**Insulin Receptor Protein (INSR) (AA 28-944) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Insulin Receptor (INSR)
Protein Characteristics:	AA 28-944
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Insulin Receptor protein is labelled with His tag.

## Product Details

Sequence:	AA 28-944
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	Insulin Receptor (INSR)
Alternative Name:	Insulin R ( <a href="#">INSR Products</a> )
Background:	Insulin receptor (INSR) is also known as CD antigen CD220, which can be cleaved into the following 2 chains: Insulin receptor subunit alpha and Insulin receptor subunit beta. INSR is a tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains carry the insulin-binding regions, while the beta chains carry the kinase domain. Forms a hybrid receptor

Target Details

	with IGF1R, the hybrid is a tetramer consisting of 1 alpha chain and 1 beta chain of INSR and 1 alpha chain and 1 beta chain of IGF1R. In addition to binding insulin, the insulin receptor can bind insulin-like growth factors (IGFI and IGFII). Isoform Short of INSR has a higher affinity for IGFII binding. When present in a hybrid receptor with IGF1R, INSR binds IGF1.
Molecular Weight:	106.5 kDa
NCBI Accession:	<a href="#">NP_000199</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Negative Regulation of Transporter Activity</a>

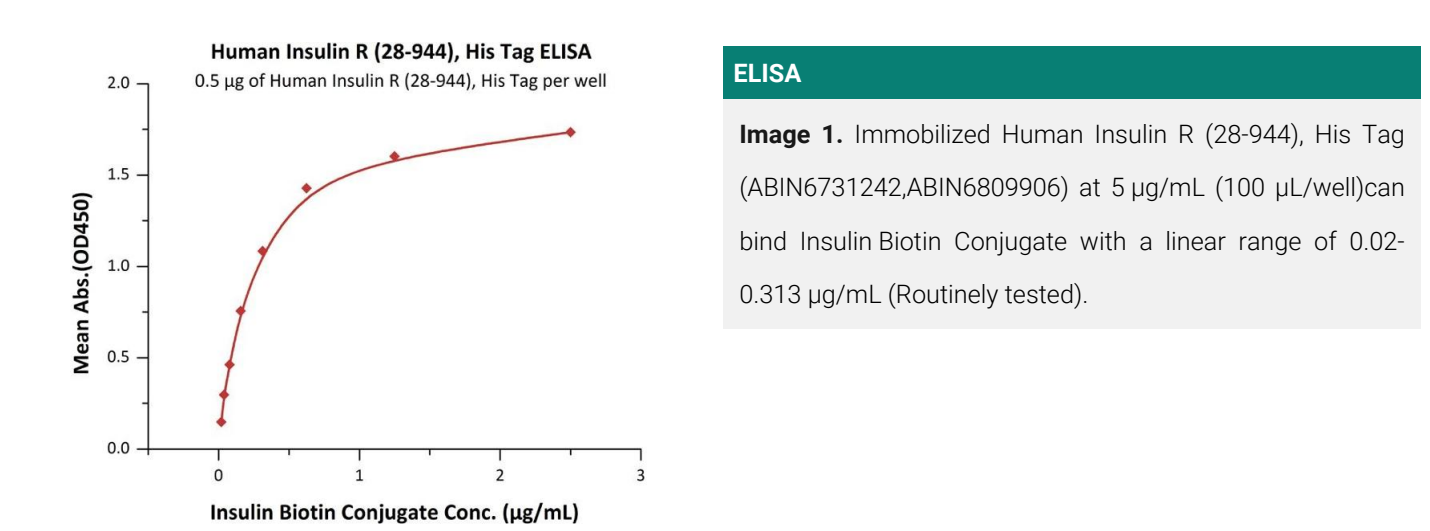
Application Details

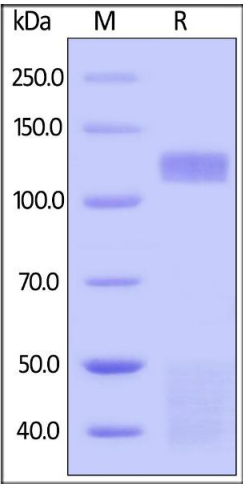
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

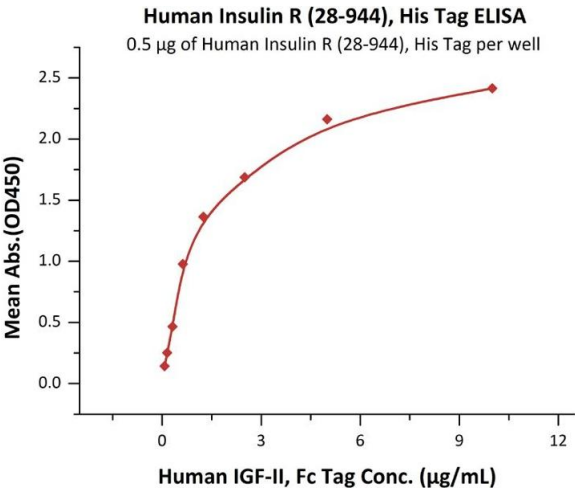
Images





SDS-PAGE

**Image 2.** Human Insulin R (28-944), His Tag (SPR verified) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .



ELISA

**Image 3.** Immobilized Human Insulin R (28-944), His Tag (ABIN6731242,ABIN6809906) at 5 µg/mL (100 µL/well)can bind Human IGF-II, Fc Tag (ABIN2181265,ABIN2181264) with a linear range of 0.078-1.25 µg/mL (QC tested).