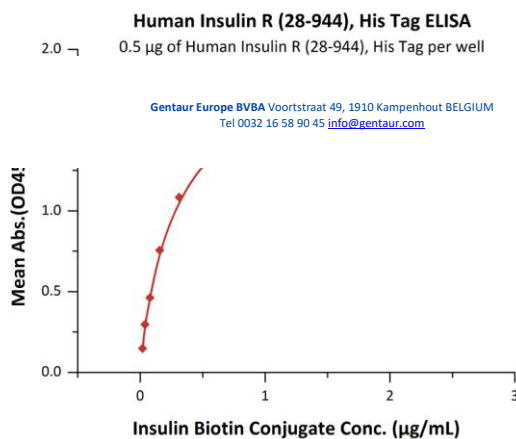


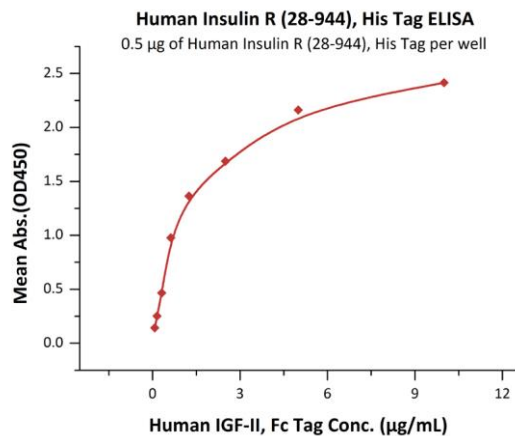
# Human CellExp™ Insulin R / CD220, Human Recombinant

<b>CATALOG #:</b>	P1377-50 P1377-10
<b>AMOUNT:</b>	50 µg 10 µg
<b>ALTERNATE NAMES:</b>	INSR, Insulin receptor, IR, CD220
<b>MOL. WT.</b>	106.5 kDa (His 28 - Lys 944) (His Tag-N terminus)
<b>SOURCE:</b>	HEK 293 cells
<b>PURITY:</b>	>90% as determined by SDS-PAGE
<b>ENDOTOXIN:</b>	Less than 1.0 EU per µg by the LAL method.
<b>FORM:</b>	Lyophilized
<b>FORMULATION:</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
<b>RECONSTITUTION:</b>	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Do not vortex. It is recommended to store at -20°C.
<b>SPECIFIC ACTIVITY:</b>	Immobilized Human Insulin R (28-944), His Tag at 5 µg/mL (100 µL/well) can bind Human IGF-II, Fc Tag with a linear range of 0.078-1.25 µg/mL Immobilized Human Insulin R, His Tag at 5 µg/mL (100 µL/well) can bind Insulin Biotin Conjugate with a linear range of 0.02-0.313 µg/mL
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.
<b>DESCRIPTION:</b>	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 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.
<b>AMINO ACID SEQUENCE:</b>	AA His 28 - Lys 944

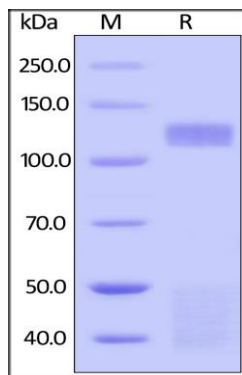


Immobilized Human Insulin R, His Tag at 5 µg/mL (100 µL/well) can bind Insulin Biotin Conjugate with a linear range of 0.02-0.313 µg/mL





Immobilized Human Insulin R, His Tag at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IGF-II, Fc Tag with a linear range of 0.078-1.25  $\mu$ g/mL



Human Insulin R, His Tag on SDS-PAGE under reducing (R) condition

#### RELATED PRODUCTS:

Human CellExp™ Pro-IGF-II, Human Recombinant (6477)  
 Insulin, human recombinant (E. coli) (4772)  
 Human CellExp™ IGF1R/CD221, human recombinant (7490)  
 Insulin, human recombinant (Yeast) (4773)

**FOR RESEARCH USE ONLY! Not to be used on humans.**