

Active Recombinant Human INSR protein, His-tagged

Cat. No. INSR-623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human INSR protein(NP_000199.2)(Met 1-Lys 956) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-956 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its binding ability in a functional ELISA. When 1 µg/ml of biotinylated human insulin is immobilized onto a streptavidin coated plate, it can bind human INSR (isoform long) with a linear range of 0.625-10 µg/ml.
Molecular Mass	The secreted recombinant human INSR isoform long consists of 940 amino acids and has a predicted molecular mass of 107 (83+24) kDa. As a result of glycosylation, the apparent molecular mass of rhINSR is approximately 125-135 kDa & 40-45 kDa, corresponding to the α subunit and the ECD of β subunit respectively in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
protein Refseq-Weblink	http://www.ncbi.nlm.nih.gov/protein/NP_000199.2
Unit ID	P06213
Unit ID-Weblink	https://www.uniprot.org/uniprotkb/P06213

GENE INFORMATION

Gene Name	INSR insulin receptor [Homo sapiens]
Official Symbol	INSR
Synonyms	INSR; insulin receptor; CD220; IR; HHF5;
Gene ID	3643
mRNA Refseq	NM_000208
protein Refseq	NP_000199
MIM	147670

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