

RPPB0693

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## Product Information Protein Information

**Product SKU:**

RPPB0693

**Accession:**

P06213

**Host:**

HEK 293.

**Protein description:**

Insulin Receptor Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (aa 28-944 of the short isoform- HIR-A, Uniprot accession # P06213-2 which includes the whole subunit alpha and extracellular domain of subunit beta) containing a total of 927 amino acids, having a molecular mass of 105.9kDa (calculated), though it migrates at approximately 160kDa on SDS PAGE, the INSR is fused to a 2 a.a N-terminal linker, a 2 a.a C-terminal linker and fused to a 6 a.a His tag at C-Terminus. The Human INSR is purified by proprietary chromatographic techniques.

**Appearance:**

Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Insulin receptor, IR, EC 2.7.10.1, CD220, INSR, HHF5.

**Formulation:**

INSR was filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.

**Purity:**

Greater than 95.0% as determined by SDS-PAGE.

**Solubility:**

It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. INSR is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Stability:**

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

**Amino Acid Sequence:**

ASHLYPGEVC PGMDIRNNLT RLHELENCV IEGHLQILLM FKTRPEDFRD LSPFKLIMIT DYLLFRVYG  
LESKDLFPN LTVIRGSRLF FNYALVIFEM VHLKELGLYN LMNITRGSVR IEKNNELCYL ATIDWSRILD  
SVEDNYIVLN KDDNEECGDI CPGTAKGKTN CPATVINGQF VERCWTHSHC QKVCPTICKS HGCTAEGGCC  
HSECLGNCSQ PDDPTKCVAC RNFYLDGRCV ETCPPYYHF QDWRCVNF SF CQDLHHKCKN SRRQGCHQYV  
IHNNKCIPEC PSGYTMNSSN LLCTPCLGPC PKVCHLLEGE KTIDSVTSAQ ELRGCTVING SLIINIRGGN  
NLAALEANL GLIEISGYL KIRRSYALVS LSFFRKLRLI RGETLEIGNY SFYALDNQNL RQLWDWSKHN  
LTITQGKLF HYNPKLCLSE IHKMEEVSGT KGROERNDIA LKTNGDQASC ENELLKFSYI RTSFDKILLR  
WEPYWPDFR DLLGFMLFYK EAPYQNVTEF DGQDACGSNS WTVVDIDPPL RSNDPKSQNH PGWLMRGLKP  
WTQYAIIVKT LVTFSDERRT YGAKSDIIV QTDATNPSVP LDPISVSNS SQIILKWKPP SDPNGNITHY  
LVFWERQAED SELFEDYCL KGLKLPRTW SPPFESEDSQ KHNQSEYEDS AGECCSCPCT DSQILKELEE  
SSFRKTFEDY LHNVVFVPRP SRKRRSLGDV GNVTVAVPTV AAFPNTSSTS VPTSPEEHRP FEKVVNKESL

VISGLRHFTG YRIELQACNQ DTPEERCSVA AYVSARTMPE AKADDIVGPV THEIFENNVV HLMWQEPKEP  
NGLIVLYEVS YRRYGDEELH LCVSRKHFAL ERGCRLRGLS PGNYSVRIRA TSLAGNGSWT EPTYFYVTDY  
LDVPSNIACK LHHHHHH.