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- Expressversand

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Insulin Receptor, human recombinant (rhuINSR)

Catalog No: 99940
Lot No: XXXXX
Source: HEK293
Synonyms: Insulin receptor, IR, EC 2.7.10.1, CD220, INSR, HHF5

Background

The insulin receptor (INSR) is a receptor tyrosine kinase, which mediates the pleiotropic actions of insulin. Binding of insulin to the insulin receptor stimulates glucose uptake. Once the precursor signal peptide is removed, the insulin receptor precursor is post-translationally cleaved into two chains (α and β), which are covalently linked. Insulin binding initiates phosphorylation of several intracellular substrates, including, insulin receptor substrates (IRS1, 2, 3, 4), SHC, GAB1, CBL and other signaling intermediates. Each of these phosphorylated proteins functions as docking proteins for other signaling proteins which contain Src-homology-2 domains, that specifically recognize different phosphotyrosines residues, including the p85 regulatory subunit of PI3K and SHP2.

Description

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

Physical Appearance

Filtered, white lyophilized (freeze-dried) powder.

Formulation

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

Solubility

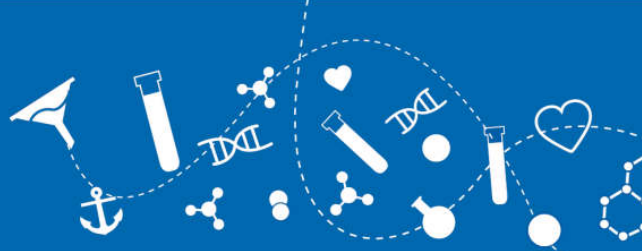
It is recommended to add 200 μ l deionized water to a working concentration of 0.5 mg/ml and let the lyophilized pellet dissolve completely. INSR is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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

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ASHLYPGEVC  PGMDIRNNLT  RLHELENCVS  IEGHLQILLM  FKTRPEDFRD  LSFPKLIMIT  DYLLLFVRYG  LESLKDLFPN
LTVIRGSRLF  FNYALVIFEM  VHLKELGLYN  LMNITRGSVR  IEKNNELCYL  ATIDWSRILD  SVEDNYIVLN  KDDNEECGDI
CPGTAKGKTN  CPATVINGQF  VERCWTHSHC  QKVCPTICKS  HGCTA EGLCC  HSECLGNCSQ  PDDPTKCVAC  RNFYLDGRCV
ETCPPYYHF  QDWRCVNFSF  CQDLHHKCKN  SRRQGCHQYV  IHNNKCIPEC  PSGYTMNSSN  LLCTPCLGPC  PKVCHLLEGE
KTIDSV TSAQ  ELRGCTVING  SLIINIRGGN  NLAAELEANL  GLIEEISGYL  KIRRSYALVS  LSFFRKLRLI  RGETLEIGNY
SFYALDNQNL  RQLWDWSKHN  LTITQGKLF  HYNPKLCLSE  IHKMEEVSGT  KGRQERNDIA  LKTNGDQASC  ENELLKFSYI
RTSFDKILLR  WEPYWPPDFR  DLLGFMLFYK  EAPYQNVTEF  DGQDACGSNS  WTVVDIDPPL  RSNDPKSQNH  PGWLMRGLKP
WTQY AIFVK T  LVTFS DERR T  YGAKSD I IYV  QTDATNPSVP  LDPISVSNS  SQIILKWKPP  SDPNGNITHY  LVFWERQAED
SELFELDYCL  KGLKLPSRTW  SPPFESEDSQ  KHNQSEYEDS  AGECCSCPKT  DSQILKELEE  SFRKTFEDY  LHNVV FVPRP
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SRKRRSLGDV GNVTVAVPTV AAFPNTSSTS VPTSPEEHRP FEKVVNKESL VISGLRHFTG YRIELQACNQ DTPEERCSVA
AYVSARTMPE AKADDIVGPV THEIFENNVV HLMWQEPKEP NGLIVLYEVS YRRYGDEELH LCVSRKHFAL ERGCLRGLS
PGNYSVRIRA TSLAGNGSWT EPTYFYVTDY LDVPSNIAKK LHHHHHH

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