9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

INSR Human

Insulin Receptor Human Recombinant
GRF0188

Product Overview

Name	INSR Human
Description	
Insulin Receptor Human Recombinant	
Accession (Primary)	P06213
Synonyms	
Insulin receptor, IR, EC 2.7.10.1, CD220, INSR, HHF5.	
Introduction	
Insulin Receptor (INSR) is a receptor tyrosine kinase which mediates the pleiotropic actions of insulin. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. Once the precursor signal peptide is removed, the insulin receptor precursor is post-translationally cleaved into 2 chains (alpha and beta) 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 function as docking proteins for other signaling proteins which contain Src-homology-2 domains (SH2 domain) that specifically recognize different phosphotyrosines residues, including the p85 regulatory subunit of PI3K and SHP2.	
Source	
HEK 293.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
INSR was filtered (0.4 µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
AS HLYPGEVC PGMDIRNNLT RLHELENCSV IEGHLQILLM FKTRPEDFRD LSFPKLIMIT DYLLLFRVYG LESLKDLFPN LTVIRGSRLF FNYALVIFEM VHLKELGLYN LMNITRGSVR IEKNNELCYL ATIDWSRILD	

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SVEDNYIVLN KDDNEECGDI CPGTAKGKTN CPATVINGQF VERCWTHSHC QKVCPTICKS HGCTAEGLCC HSECLGNCSQ PDDPTKCVAC RNFYLDGRCV ETCPPPYYHF QDWRCVNFSF CQDLHHKCKN SRRQGCHQYV IHNNKCIPEC PSGYTMNSSN LLCTPCLGPC PKVCHLLEGE KTIDSVTSAQ ELRGCTVING SLIINIRGGN NLAAELEANL GLIEEISGYL KIRRSYALVS LSFFRKLRLI RGETLEIGNY SFYALDNQNL RQLWDWSKHN LTITQGKLFF HYNPKLCLSE IHKMEEVSGT KGRQERNDIA LKTNGDQASC ENELLKFSYI RTSFDKILLR WEPYWPPDFR DLLGFMLFYK EAPYQNVTEF DGQDACGSNS WTVVDIDPPL RSNDPKSQNH PGWLMRGLKP WTQYAIFVKT LVTFSDERRT YGAKSDIIYV QTDATNPSVP LDPISVSNSS SQIILKWKPP SDPNGNITHY LVFWERQAED SELFELDYCL KGLKLPSRTW SPPFESEDSQ KHNQSEYEDS AGECCSCPKT DSQILKELEE SSFRKTFEDY LHNVVFVPRP SRKRRSLGDV GNVTVAVPTV AAFPNTSSTS VPTSPEEHRP FEKVVNKESL VISGLRHFTG YRIELQACNQ DTPEERCSVA AYVSARTMPE AKADDIVGPV THEIFENNVV HLMWQEPKEP NGLIVLYEVS YRRYGDEELH LCVSRKHFAL ERGCRLRGLS PGNYSVRIRA TSLAGNGSWT EPTYFYVTDY LDVPSNIAKK L HHHHHH .

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.

Precautions

INSR Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P06213)