

# Product Information

## MemDX™ Membrane Protein Human INSR (Insulin receptor) Full Length

Cat. No.: **MPC1002K**

This product is for research use only and is not intended for diagnostic use.

This product is a 156.3 kDa Human INSR membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

INSR

#### Protein Length

Full length

#### Protein Class

Receptor

#### Molecular Weight

156.3 kDa

#### TMD

1

#### Sequence

MATGGRRGAAAPLLVAVAAALLGAAGHLYPGEVCPGMDIRNNLTRHEL  
ENCSVIEGHLQILLMFKTRPEDFRDLSFPKLIMITDYLLFRVYGLESLK  
DLFPNLTVIRGSRLFFNYALVIFEMVHLKELGLYNLMNITRGSVRIEKN  
ELCYLATIDWSRILDSVEDNYIVLNKDDNEECGDICPGTAKGKTNCPATV  
INGQFVERCWTHSHCQKVCPTICKSHGCTAEGLCCHSECLGNCSQPDDPT  
KCVACRNFYLDGRCVETCPPPYHHFQDWRCVNFSCQDLHHKCKNSRRQG  
CHQYVIHNNKCIPECPSGYTMNSSNLLCTPCLGPCPKVCHLLEGEKTIDS  
VTSAQELRGCTVINGSLIINIRGGNNLAALEANLGLIEEISGYLKIRRS  
YALVSLSFRRKLRLIRGETLEIGNYSFYALDNQNLRLQWDWSKHNLITQ  
GKLFFHYNPKLCLSEIHKMEEVSGTKGRQERNLIALKTNGDQASCENELL  
KFSYIRTSFDKILLRWEPYWPPDFRDLLGFMLFYKEAPYQNVTEFDGQDA  
CGSNWTVVDIDPPLRSNDPKSQNHGWLMRGLKPWTQYAIQVKTLLVTF  
DERRTYGAKSDIYVQTDATNPSPVPLDPISVSNSSSQIILKWKPPSDPNG  
NITHYLVFWERQAEDSELFEDYCLKGLKLPSRTWSPPESEDSQKHNS  
EYEDSAGECCSCPKTDSQILKELEESSFRKTFEDYLNHVVFPVPRKTSSGT  
GAEDPRPSRKRRSLGDVGNVTVAAPTVAAPNTSSTSVPTSPEEHRPFK  
VVKESLVISGLRHFTGYRIELQACNQDTPEERCSVAAYVSARTMPEAKA  
DDIVGPVTHEIFENNVVHLMWQEPKEPNGLIVLYEVSRYRYGDEELHLCV  
SRKHFALERGCRRLRGLSPGNYSVRIRATSLAGNGSWTEPTYFYVTDYLDV  
PSNIAKIIIGPLIFVFLFSVIGSIYFLRKRQPDGPLGPLYASSNPEYL  
SASDVFPCSVYVPDEWEVSREKITLLRELGGQSGFMVYEGNARDIIGEA

ETRVAVKTVNESASLRERIEFLNEASVMKGFTCHHVVRLLGVVSKGQPTL  
VVMELMAHGDLKSYLRSLRPEAENNPGRPPPTLQEMIQMAAEIADGMAYL  
NAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDIYETDYRKGKGKLLPV  
RWMAPESLKDGVFTTSSDMWSFGVVLWEITSLAEQPYQGLSNEQVLKFVM  
DGGYLDQPDNCPERVTDLMRMCWQFNPKMRPTFLEIVNLLKDDLHPSFPE  
VSFFHSEENKAPESSEEELEMEFEDMENVPLDRSSHQREEAGGRDGGSSLG  
FKRSYEEHIPYTHMNGGKKNGRILTLPRSNPS

## Product Description

### Expression Systems

HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

INSR

### Full Name

Insulin receptor

### Introduction

This gene encodes a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants.

### Alternative Names

INSR; HHF5; CD220; insulin receptor; Insulin receptor

### Gene ID

[3643](#)

### UniProt ID

[P06213](#)