

# Human INSR Knockdown Cell Lysate

**Cat. No.** INSR-209HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated INSR Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	156 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.

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<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg INSR KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways</b>	Adherens junction, Insulin signaling pathway, Type II diabetes mellitus
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	INSR insulin receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	INSR
<b>Synonyms</b>	INSR; insulin receptor; CD220; IR; HHF5;
<b>Gene ID</b>	3643
<b>mRNA Refseq</b>	NM_000208
<b>Protein Refseq</b>	NP_000199
<b>MIM</b>	147670
<b>UniProt ID</b>	P06213

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