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Insulin - Wikipedia

Molecular Basis of Insulin Signaling The discovery of insulin and subsequent signaling studies have been so revolutionary in metabolic research that the Nobel Prizes in 1923, 1958, 1964, and 1977 were awarded to the scientists studying in insulin purification methods, its DNA and protein sequences, and immunological assays.

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Molecular mechanisms of insulin action Insulin is a 51-amino acid peptide, produced and se-creted by pancreatic islets' cells. It consists of two β polypeptide chains, A and B, of 21 and 30 amino acids, respectively, which are connected by disulfide bridg-es^{4,12,16}. Its biological actions begin when it binds to its

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The actions of insulin
are initiated by

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hormone binding to its cell surface receptors. Insulin receptors are ligand-stimulated protein tyrosine kinases and phosphorylate a number of proteins, known...

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One day, in a moment of weakness, I fell prey to the temptation to organize and edit this volume on the mechanism of insulin action. The major reason for attempting to resist, of course, is the amazing speed at which advances are being made in this field.

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Jeffrey Pessin and I discuss the cell biology of insulin action, speculating about possible molecular defects responsible for the attenuation of the actions of the hormone. Gerald Shulman focuses on changes in glucose metabolism that are characteristic of patients and animal models with insulin resistance,...

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or insulin action [1-3].
The major enzyme(s)
of the cell responsible
for the C. Ronald Kahn
is Chief Section on
Cellular and Molecular
Physiologyf Diabetes
Branch, NIAMDD,
National Institutes of
Health, Building 10
Room 89 243, 9000
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Contributions of

Chemical Modifications

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Approaches Dr Helmut

Zahn , Ing , Dr Dietrich

Brandenburg , rer. nat

and

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The molecular

mechanism underlying

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defective insulin-stimulated glucose transport activity can be attributed to increases in intramyocellular lipid metabolites such as fatty acyl CoAs and diacylglycerol, which in turn activate a serine/threonine kinase cascade, thus leading to defects in insulin signaling through the Ser/Thr phosphorylation of the insulin receptor

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*Molecular mechanisms
of insulin resistance in
type 2*

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Molecular Basis of Insulin Resistance and Its Relation to Metabolic Syndrome
11. isoforms of p85 α truncated in the N-terminal region, identified as AS53 (or p55 α) [103, 104] and p50 α [105, 106], as well as p85 α itself, are derived from a single gene (Pik3r1).

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Chapter 6 Molecular basis of insulin action. Steven B. Waters, Kathleen H. Holt, Ann Louise Olson, Jeffrey E. Pessin. Research output: Contribution to journal > Article. During the past several years, we have made enormous progress in our understanding of the cellular mechanisms involved in insulin receptor signaling.

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Insulin Action:
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Diabetes. Unbalanced
regulation of the
signalling cascades
that mediate insulin
action in the cell leads
to diabetes mellitus.
Thus, identification of
the basic mechanism
of insulin action
promotes our
understanding of the
molecular basis of

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diabetes and the development of better therapeutic interventions.

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Basis for Insulin

Action—Bessman

substrate and produce

energy or substance

only in relation to the

affinity of sites and

availability of

substrates. Once a

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substance entered the metabolic chain it would pass down the chain at a rate dependent only upon the rate of the slowest reaction in the chain.

Molecular basis of insulin action (Book, 1985) [WorldCat.org]

The human insulin protein is composed of 51 amino acids, and has a molecular mass of 5808 Da. It is a dimer of an A-chain

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and a B-chain, which are linked together by disulfide bonds.

Insulin's structure varies slightly between species of animals.

What is the molecular basis, action of insulin?

Chapter 6 Molecular Basis of Insulin Action
STEVEN B. WATERS,
KATHLEEN H. HOLT,
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Unbalanced regulation
of the signalling
cascades that mediate

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insulin action in the cell leads to diabetes mellitus. Thus, identification of the basic mechanism of insulin action promotes our understanding of the molecular basis of diabetes and the development of better therapeutic interventions.

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