Insulin solution

Product Number: OM760001

Product Introduction

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Insulin is a double - chain polypeptide hormone secreted by pancreatic β - cells. The α - chain and β - chain are connected by two inter - chain disulfide bonds, and the α - chain contains an intra - chain disulfide bond. Insulin can bind to the insulin receptor to activate downstream signaling pathways, including the phosphorylation of the insulin receptor, IRS - 1, Akt, and GSK3β, etc., promoting the uptake, utilization, and storage of glucose, amino acids, and fatty acids by cells, and inhibiting the breakdown of glycogen, proteins, or fats.

human insulin CAS ： 11061-68-0

the molecular formula：C257H383N65O77S6

molecular weight：5807.69

Product Description:

This product is in liquid form, with a concentration of 9.5 - 11.5 mg/mL. It has been filtered through a 0.1μm filter and is free of bacteria, mycoplasma, etc.

Specification: 10mL

Validity period: 1 year

Storage temperature: -20℃

Transportation conditions: Low - temperature transportation

instruction for use

The recommended concentration of human insulin solution for cell culture is 0.5 - 1 mL/L of culture medium. Human insulin can be used for the cultured cells of mammals such as mice and rats, and can also be directly injected into mice, rats, etc. for relevant experimental research.

Quality standards

Test Items*	Inspection Standards*
PH	7.9-8.5
Sterility Test	No growth of bacteria and fungi
Endotoxin Content	≤ 50 EU/mL

Precautions

1. Minimize the number of freeze - thaw cycles to avoid a decrease in potency.
2. Pay attention to aseptic operation to avoid contamination.

3. This product is limited to scientific research by professionals and shall not be used for clinical diagnosis or treatment.
4. For your safety and health, please wear a lab coat and disposable gloves when operating.