
Product Data Sheet

Product Name: Insulin Human, Yeast

Cat. No.: GP20674

Batch No.: 1

Product Data

Purity >98% Source Saccharomyces cerevisiae.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Solubility It is recommended to reconstitute the lyophilized Insulin in PBS pH-7.5.

Formulation The protein was lyophilized from 50mM Sodium Chloride solution.

Introduction

Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

Biological Activity

27.5 units/mg. Insulin has been evaluated in cell culture (Human Foreskin Fibroblasts). The effective concentration range for use in defined media is 1-5ug/ml. However, the optimum concentration range for a particular application must be determined by the investigator.

Stability

Lyophilized Insulin although stable at room temperature, should be stored at 4°C . Upon reconstitution Insulin should be stored at -20°C to -80°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

Insulin Human Recombinant produced in Yeast is a two chain, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5807 Dalton. Zinc content was found to be 0.4%. Insulin is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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