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## Product Data Sheet

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Product Name: Insulin Human, His  
 Cat. No.: GP20675  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Insulin; Insulin-Dependent Diabetes Mellitus 2; Preproinsulin; Proinsulin; MODY10; IDDM1; IDDM2; IDDM; ILPR; IRDN.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFVNQHLC GSHLVEALYL VCGERGFYF PKTRREAEDL QVGQVELGGG PGAGSLQPLA LEGSLQKRGV VEQCCTSICS LYQLENYCN		
Formulation	Insulin protein solution (0.5mg/ml) containing Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.		

### 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

Measured in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 for this effect is less or equal to 4 ug/ml.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Insulin Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 109 amino acids (25-110 a.a) and having a molecular mass of 11.8kDa.

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

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Insulin is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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