

Human Insulin

Human Insulin, recombinant

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date*
25 mg	W1493.950.288	3810701000	March 2011

Description

Recombinant Human Insulin is a 5.8 kDa two chain, non-glycosylated polypeptide chain containing 51 amino acids. It decreases blood glucose concentration and increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle and glycogen synthesis in liver.

- **Biological activity** 28 units/mg
- **Source** *E. coli*
- **Purity** $\geq 98\%$ (SDS-PAGE, RP-HPLC)
- **Endotoxin level** $\leq 0.1\text{ng}/\mu\text{g}$ ($\leq 1\text{EU}/\mu\text{g}$)
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ was found to be 28 units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile 0.005M HCl not more than 1mg/ml. This solution can then be further diluted to other aqueous solutions.

Stability

Lyophilized Recombinant Human Insulin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution, the protein should be stored between 2-7 days at 4°C and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze/thaw cycles.**

Usage

FOR RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

*For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

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