

Product Name

Name: EaSulin™ Recombinant Human Insulin (dry powder)

Cat. No.: C6010-0100, C6010-0500, C6010-1000

Size: 100 mg, 500 mg, 1000 mg

Product Description

Human insulin is a hormone produced by pancreatic beta cells which regulate the glucose levels in blood. Human insulin is a globular protein with a molecular mass of 5,808 Da and consists of two chains connected by two disulfide bridges. This product is expressed in *Escherichia coli*. The purity and quality of the recombinant human insulin are demonstrated to be superior to the animal and semisynthetic insulin, making it an excellent auxiliary component in cell culture medium.

The main features of the product include:

1. White powder
2. Low endotoxin
3. GMP-grade

Procedure

1. Prepare a hydrochloric acid (HCl) solution with pH 2.0 - 3.0. In general, it can be used in making a 10 mM hydrochloric acid solution to prepare a 1 - 2 mg/mL stock insulin solution.
2. If necessary, sterilize with a 0.22 µm filter after full solubilization. During preparing and filtering this product, try not to create any foam, or it may lead to partial insulin degradation.
3. The stock solution should be aliquoted and stored at -20°C. Avoid repeated the freeze-thaw cycle.

Quality Control

Recombinant Human Insulin is tested for the appearance, concentration, identification, residual host protein, and endotoxin level.

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 24 months

Issue Date

Feb 2024

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.

