

Insulin Recombinant Human

Cell Culture Tested

Product Code: TC190

Molecular Weight: 5.802 kDA

Cas No: 11061-68-0

Product Description :

Insulin, a two-chain polypeptide of approximately 5800 Dalton, is produced by β - cells of the islets of Langerhans of the pancreas. It consists of two chains α and β , joined by two interchain disulphide bonds. It has a profound effect in the metabolism of carbohydrates, fats and proteins, and inhibits the breakdown of glycogen, protein and fat.

In cell culture, insulin has been considered as a key factor in the growth regulation and differentiation of cells, and hence it is often included as a media supplement. It also aids as a survival promoting factor in cell culture media. Recombinant human insulin is commonly used as an additive in serum free media.

Storage and Stability:

The powdered form should be stored at -20°C . Powder is stable at room temperature upto 3 weeks. For long term storage, powder should be stored at -20°C .

Stock solution should be stored frozen at -20°C in single use aliquote. Repeated freezing and thawing should be avoided.

Quality Control:

Appearance

White to off-white to brown powder.

Solubility

Clear colourless to slight yellow solution at 1mg/ ml in 10mM hydrochloric acid

Assay

NLT 97.00%

Activity in IU/mg

26.0 IU/mg

Cell Culture Test

Passes

Disclaimer :

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