Insulin, Recombinant Human

Cell Culture Reagents-Growth Supplements

Catalogue number: CC122

Description: Two-chain polypeptide hormone is produced by the beta-cells of pancreatic islets. It contains 51 amino acids and the molecular weight is ~5800 Dalton. The alpha and beta-chains are joined by two interchain disulfide bonds. The alpha chain contains an intrachain disulfide bond. Insulin regulates the cellular uptake, utilization, and storage of glucose, amino acids, and fatty acids and inhibits the breakdown of glycogen, protein, and fat. Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids and accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

Our recombinant human insulin (rh-Insulin) consists of human insulin crystals, which is a biosynthetic product produced by recombinant microbial expression in yeast. The rh-Insulin serves as a key component in serum-free growth media for mammalian cells. It is used for the manufacturing of monoclonal antibodies, virus vaccines, gene therapy products and other biological drug products. The rh-Insulin stimulates the proliferation of cells and enhances the product yield.

Molecular Formula:	C254H377N65O75S6
Molecular Weight:	5733.49
CAS Number:	11070-73-8
Formulation:	5mg/mL in 0.1N hydrochloric acid
Storage & Stability:	One month at 2-8°C, −20°C for long time storage (recommended)
Activity:	⩾27 units per mg
Suitability:	Cell culture tested
Physical Appearance:	Sterile filtered clear solution
Endotoxin:	Tested (⩽1.0 EU/mL)
Pack Size:	5mg (1mL)

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