Active GMP Recombinant Human Insulin

Cat. No. Insulin-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is made from yeast expression system containing highly efficient expression of human insulin gene by fermentation, isolation and high purification, and then lyophilized. It consists of two polypeptide chains, each of which is composed of 51 amino acid residues and has a molecular weight of 5807 Da.
Species	Human
Description	Insulin is a peptide hormone secreted by pancreatic beta cells. Insulin plays an important role in many cellular activities: for example, it promotes sugar and amino acid transport, increases anabolism and decreases catabolism, and stimulates cell growth. Insulin is a common addition to serum-free mammalian cell culture media.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	Specific activity >27.5 IU/mg.
Purity	>99.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage	Stable storage at 4℃ for 7-10 days; for long-term storage, please store at -80℃ after dispensing.
Sterility	Sterility

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Instructions	It is recommended that lyophilized recombinant human insulin be dissolved in sterile 0.01N hydrochloric acid at a concentration of not less than 1 mg/ml, pending further dilution to working concentration.

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