

Insulin, human recombinant (Yeast)

CATALOG #:	4773-5 5 mg 4773-25 25 mg
LOT #:	
SOURCE:	Yeast (<i>Saccharomyces cerevisiae</i>).
PURITY:	≥ 98.0% as determined by (a) Analysis by RP-PLC. (b) Analysis by SDS-PAGE.
SPECIFIC ACTIVITY:	27 units/mg
MOLECULAR WEIGHT:	5.8 kDa
FORM:	Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from 50mM Sodium Chloride solution.
RECONSTITUTION	It is recommended to reconstitute the lyophilized Insulin in PBS pH-7.5.
STORAGE CONDITIONS:	Lyophilized Insulin should be stored at 4°C. Upon reconstitution Insulin should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

BACKGROUND DESCRIPTION:

Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Insulin Human Recombinant produced in Yeast is a two chain, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5.807 kDa. Zinc content was found to be 0.4%. Insulin is purified by proprietary chromatographic techniques.

APPLICATION AND USAGE:

This product is for laboratory research only. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ACTIVITY:

27 units/mg. Insulin has been evaluated in cell culture (Human Foreskin Fibroblasts). The effective concentration range for use in defined media is 1-5ug/ml. However, the optimum concentration range for a particular application must be determined by the investigator.

RELATED PRODUCTS:

- Insulin, human recombinant (**Cat. No. 4772-5, -25**)
- IGF-1, human recombinant (**Cat. No. 4119-100, -1000, -10MG, -50MG, -1G, -20MG, -5000**)
- IGF-I, murine recombinant (**Cat. No. 4120-20, -100, -1000**)
- IGF-I, rat recombinant (**Cat. No. 4121-20, -100, -1000**)
- IGF-I Antibody (**Cat. No. 5119-100**)
- IGF-I Antibody (**Cat. No. 5120R-100**)
- IGF-II Antibody (**Cat. No. 5122-100**)
- Insulin Antibody (**Cat. No. 5772-100**)

FOR RESEARCH USE ONLY. Not to be used in humans.