

## Recombinant human Insulin

Catalog Number: bs-0855P

AA Seq: 1-110/110

Predicted MW: 5.8

Detected MW: 6 kDa

Tags: Tag free

Activity: Not tested

Endotoxin: <1.0 EU/μg as determined by endotoxin.

Purity: >95% as determined by SDS-PAGE

Purification: AC

Storage: Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** Insulin is one of the major regulatory hormones of intermediate metabolism throughout the body. The biological actions of this hormone involve integration of carbohydrate, protein, and lipid metabolism. Insulin enhances membrane transport of glucose, amino acids, and certain ions. It also promotes glycogen storage, formation of triglycerides and synthesis of proteins and nucleic acids. Immunocytochemical investigations have localized insulin in the B cells of pancreatic islets of Langerhans. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. Insulin is also present in tumors of B cell origin such as insulinoma.

### VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.

### PRODUCT SPECIFIC PUBLICATIONS

**[IF=5.6]** Zhongyi Xu. et al. A cucurbit[7]uril-mediated crosslinking-amplified microchannel resistance immunoassay via magnetic interception for point of care testing of insulin. TALANTA. 2025 Nov;294:128211 ;

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