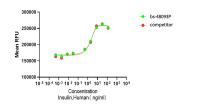


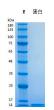
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## **Recombinant human Insulin protein (Active, Yeast)**

Catalog Number:	bs-48093P
Species:	Human
AA Seq:	αlpha chain:G-I-V-E-Q-C-C-T-S-I-C-S-L-Y-Q-L-E-N-Y-C-N beta chain:F-V-N-Q-H-L-C-G-S-H-L-
	V-E-A-L-Y-L-V-C-G-E-R-G-F-F-Y-T-P-K-T
Predicted MW:	5.8
Tags:	Tag free
Activity:	Yes
Endotoxin:	≤20 EU/mg
Purity:	$\geq$ 95% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from a 0.22µm-filtered solution
	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 36 months at -20°C to
	-80°C in lyophilized state. 6 months at -20°C to -80°C under sterile conditions after
	reconstitution. 7-10 days at 2°C to 8°C under sterile conditions after reconstitution.
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





Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is  $\leq$ 60 ng/mL.

The purity of the protein is greater than 95% as determined by reducing SDS-PAGE.