

CytoGrow™ Recombinant Insulin (Human)

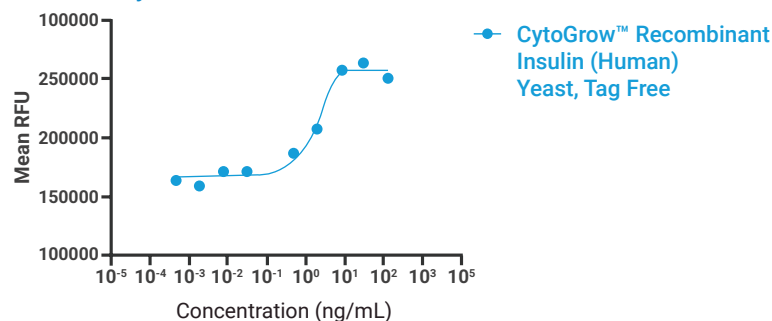
Catalog Numbers: CG033-A, CG033-B, CG033-C

Revision 1.0

Specifications

Synonym	Insulin; INS; IDDM; ILPR; IRDN; MODY10
Species	Human
Size	100mg/1g
Tag	Tag Free
Purity	≥95%, by SDS-PAGE (under reducing (R) & Non-reducing conditions, visualized by Coomassie staining)
Endotoxin	≤20 EU/m
Expression System	Yeast
Expression Region	alpha 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
pH	7.0-8.0
Appearance	White Powder or clear liquid
Formulation	Lyophilized
Shipping	Ships overnight
Reconstitution	Recommended to redissolve in sterile 0.01 M HCl at a concentration of not less than 1mg/mL.
Storage and Stability	Lyophilized state: 36 months at -20°C to -80°C After reconstitution and under sterile conditions. 6 months at -20°C to -80°C 7-10 days at 2°C to 8°C Store in a manual defrost freezer and avoid repeated freeze-thaw cycles.

Bioactivity



Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells.

Reconstitution

1. Reconstitute protein to concentrations of 100 ug/mL or higher.
2. Use sterile 0.01M HCl to solubilize the lyophilized protein.
3. Gently tap glass vial to help collect the powder to the bottom.
4. Add desired amount of buffer, observe after 2 min. Gentle agitation by hand may be required.
5. Prepare aliquots of solution. Freeze at -20°C to -80°C to avoid repeated freeze thaw cycles.