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## Product Datasheet

### Mouse Insulin protein, His tag (active), Unconjugated GTX00291-PRO

Artikelname	Mouse Insulin protein, His tag (active), Unconjugated
Artikelnummer	GTX00291-PRO
Hersteller Artikelnummer	GTX00291-pro
Alternativnummer	GTX00291-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Mouse
Konjugation	Unconjugated
NCBI	<a href="#">16334</a>
UniProt	<a href="#">P01326</a>
Puffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Phe25~Ser54(B)+GGGGS+Gly90~Asn110(A) (NP_001172012.1)

Anwendungsbeschreibung	<p>INS (Insulin) is a peptide hormone produced by beta cells of the pancreatic islets, which decreases blood glucose concentration and increases cell permeability to monosaccharides, amino acids and fatty acids. It has been reported that insulin triggers phosphorylation of a number of substrates by binding to its receptors, which was important for cell proliferation, cell cycle progression, cell division and differentiation. To detect the effect of Insulin on cell proliferation, MCF-7 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of INS. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37C. The dose-effect curve showed INS significantly promoted cell proliferation of MCF-7 cells. The ED50 for this effect is typically 11. 71-57. 11 ng/ml.</p>
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