

Active Recombinant Human INS protein

Cat. No. INS-0301H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human INS protein(P01308)(Phe25-Lys53 & Gly90-Asn110) was expressed in Yeast.
Species	Human
Source	Yeast
ProteinLength	25-53;90-110 a.a.
Form	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is typically 0.2-1 µg/mL.
Molecular Mass	The recombinant human Insulin consists of 63 amino acids and predicts a molecular mass of 7.1 KDa. It migrates as an approximately 6 KDa band in SDS-PAGE under reducing conditions.
Proteinlength	Phe25-Lys53 & Gly90-Asn110
Purity	> 95 % as determined by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C
Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	INS insulin [Homo sapiens]
Official Symbol	INS
Synonyms	INS; insulin; proinsulin; ILPR; IRDN; IDDM2; MODY10;
Gene ID	3630
mRNA Refseq	NM_000207
Protein Refseq	NP_000198
UniProt ID	P01308

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