

Datasheet for ABIN7318503 **Insulin Protein (INS)**

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Overview

Quantity:	100 µg
Target:	Insulin (INS)
Origin:	Human
Source:	Yeast
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human Insulin Protein (Active)
Sequence:	Phe1-Lys29&Gly1-Asn21
Characteristics:	A DNA sequence encoding human insulin B chain (2LGB_B)(Phe1-Lys29) and human insulin A chain (2KXX_A)(Gly1-Asn21) was expressed with a linker AAK.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	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.

Target Details

Target:	Insulin (INS)
Alternative Name:	Insulin (INS Products)
Background:	Background: After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via

Target Details

	two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: IDDM;IDDM1;IDDM2;ILPR;INS;IRDN;MODY10
Molecular Weight:	6 kDa
UniProt:	P01308
Pathways:	NF-kappaB Signaling , RTK Signaling , Positive Regulation of Peptide Hormone Secretion , Peptide Hormone Metabolism , Hormone Activity , Carbohydrate Homeostasis , ER-Nucleus Signaling , Regulation of Carbohydrate Metabolic Process , Feeding Behaviour , Autophagy , Negative Regulation of intrinsic apoptotic Signaling , Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.