

## Human Insulin Reference standard

Cat. No. INS-69H Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Enzyme Unit**

ONE INTERNATIONAL UNIT of human insulin is the activity contained in 0.03846 mg of the standard for human insulin, by definition.

**Usage**

The content of the ampoule is variable. Aliquots of insulin crystals should be accurately weighed after allowing the ampoule to equilibrate at room temperature in a desiccator. Unused portions of the ampoule should be stored desiccated at -20°C or below. PREPARATION OF AMPOULES Bulk Material. The material contained approximately 98% insulin, 1% desamido insulin and 1% other insulin-related impurities, when examined by either reverse-phase HPLC or electrophoresis. Less than 0.3% of insulin aggregates were detected by gel-filtration.

**Notes**

This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

**Storage**

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient

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temperature.

## GENE INFORMATION

<b>Gene Name</b>	INS insulin [ Homo sapiens ];
<b>Official Symbol</b>	INS
<b>Synonyms</b>	INS; insulin; proinsulin; ILPR; IRDN; IDDM2; MODY10;
<b>Gene ID</b>	3630
<b>mRNA Refseq</b>	NM_000207
<b>Protein Refseq</b>	NP_000198
<b>UniProt ID</b>	P01308
<b>Chromosome Location</b>	11p15.5
<b>Pathway</b>	ATF-2 transcription factor network, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Amyloids, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
<b>Function</b>	hormone activity; hormone activity; hormone activity; insulin receptor binding; insulin receptor binding; insulin-like growth factor receptor binding; protein binding;

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