

Human Proinsulin Reference standard

Cat. No. INS-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Enzyme Unit	6.0µg per ampoule. Where required, the uncertainty of the ampoule may be considered to be the coefficient of variation of the fill volume, which was determined to be 0.05%.
Usage	For practical purposes each ampoule contains the same quantity of the above materials. The entire contents of each ampoule should be completely dissolved in an accurately measured amount of buffer solution. No attempt should be made to weigh out portions of the freeze- dried powder. For economy in use, it is recommended that the solution, without further dilution, is sub-divided into several small containers and stored at -30 °C or below. To maintain full activity of such stored aliquots, it is suggested that the solution of ampoule contents and its subdivision and freezing by using CO ₂ /ethanol or liquid N ₂ is done rapidly. A dilute solution prepared for use in an assay should be kept cool (e.g. 4 °C) and should contain not less than 0.1% w/v carrier protein (free of proteolytic enzymes). Repeated freezing and thawing should be avoided. The material has not been sterilized and the ampoules contain no bacteriostat.
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

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regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures probably will 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 temperature.

GENE INFORMATION

Gene Name [INS insulin \[Homo sapiens \];](#)

Official Symbol [INS](#)

Synonyms [ILPR; IRDN; IDDM1; IDDM2; MODY10; insulin; proinsulin; preproinsulin; insulin-dependent diabetes mellitus 2](#)

Gene ID [3630](#)

mRNA Refseq [NM_000207](#)

Protein Refseq [NP_000198](#)

MIM [176730](#)

UniProt ID [P01308](#)

Chromosome Location [11p15.5](#)

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Pathway

AGE/RAGE pathway, organism-specific biosystem; AMPK signaling pathway, conserved biosystem; Disease, organism-specific biosystem

Function

hormone activity; identical protein binding; insulin receptor binding

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