

Human Proinsulin Reference standard

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

SPECIFICATION

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 CO₂/ethanol or liquid N₂ 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 regarded as potentially hazardous to health. It should be used and discarded

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

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conserved biosystem; Disease, organism-specific biosystem

Function

hormone activity; identical protein binding; insulin receptor binding

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