

## Bovine Proinsulin Reference standard

Cat. No. INS-193B Lot. No. (See product label)

### SPECIFICATION

**Species** Bovine

**Enzyme Unit** 25 micrograms per ampoule, by definition.

**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<sub>2</sub>/ethanol or liquid N<sub>2</sub> 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 material is of bovine origin. The material is certified to be obtained from animals taken from a closed herd in the female line since 1980, in which no animal has been clinically suspected of having BSE & which has not been fed rations containing ruminant derived protein during that period. 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 laboratorys safety procedures. Such safety procedures should include the

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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 \[ Bos taurus \];](#)

**Official Symbol** [INS](#)

**Synonyms** [insulin; proinsulin](#)

**Gene ID** [280829](#)

**mRNA Refseq** [NM\\_001185126](#)

**Protein Refseq** [NP\\_001172055](#)

**Chromosome Location** [chromosome: 29](#)

**Pathway** [AMPK signaling pathway, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem](#)

**Function** [hormone activity; identical protein binding; protein binding](#)

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