



## Insulin Porcine

## Datasheet

**Catalog Number:** PR27096

**Product Type:** Protein

**Source:** *Porcine Pancreas*

**Description/Molecular Mass:** Insulin Porcine is a two chain, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5777 Dalton. The  $\alpha$  and  $\beta$  chains are joined by two interchain disulfide bonds. The  $\alpha$  chain contains an intrachain disulfide bond. Insulin regulates the cellular uptake, utilization, and storage of glucose, amino acids, and fatty acids and inhibits the breakdown of glycogen, protein, and fat. Insulin Porcine is purified by proprietary chromatographic techniques.

**Biological Activity:** 26 units/mg.

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** The Insulin Porcine was lyophilized from a concentrated (1 mg/ml) solution with no additives.

**Reconstitution:** It is recommended to reconstitute the lyophilized Insulin Porcine in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Insulin Porcine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Insulin Pig should be stored at 4°C between 2-7 days and for future use below -18°C.  
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
**Please prevent freeze-thaw cycles.**

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Neuromics Antibodies • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics1.com](mailto:pshuster@neuromics1.com)