

Product Data Sheet

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Cat # RP-1507

Glucagon

**Size:** 4 mg

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Glucagon is an important hormone involved in carbohydrate metabolism. The hormone is synthesized and secreted from alpha cells ( $\alpha$ -cells) of the islets of Langerhans, which are located in the endocrine portion of the pancreas. Glucagon is released when the glucose level in the blood is low (hypoglycemia), causing the liver to convert stored glycogen into glucose and release it into the bloodstream. The action of glucagon is thus opposite to that of insulin, which instructs the body's cells to take in glucose from the blood in times of satiation.

**USAGE:** This item is for LABORATORY RESEARCH USE ONLY.

RP-1507

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**SOURCE:** Glucagon Human Synthetic peptide is a single, non-glycosylated, polypeptide chain containing 29 amino acids and having a molecular mass of 3485 Dalton. Glucagon peptide was formulated with no additives.

**APPLICATION AND SUGGESTED DILUTIONS:** Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**STORAGE & STABILITY:** It is recommended to reconstitute the lyophilized Glucagon 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. Glucagon although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Glucagon 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).

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