

**Secretin (5-27), porcine**  
**Synthetic Peptide**  
**Catalog # SP3180a****Specification**

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**Secretin (5-27), porcine - Product Information**

Primary Accession	<a href="#">P31299</a>
Other Accession	<a href="#">P63296</a> , <a href="#">P63297</a> , <a href="#">P63298</a>
Sequence	NH2-TFTSELSRLRDSARLQRLQLGLV-CONH2

**Secretin (5-27), porcine - Additional Information****Other Names**  
Secretin, SCT**Format**  
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.**Storage**  
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.**Precautions**  
This product is for research use only. Not for use in diagnostic or therapeutic procedures.**Secretin (5-27), porcine - Protein Information****Name** SCT {ECO:0000250|UniProtKB:P09683}**Function**  
Hormone involved in different processes, such as regulation of the pH of the duodenal content, food intake and water homeostasis. Exerts its biological effects by binding to secretin receptor (SCTR), a G-protein coupled receptor expressed in the basolateral domain of several cells. Acts as a key gastrointestinal hormone by regulating the pH of the duodenal content. Secreted by S cells of the duodenum in the crypts of Lieberkuehn and regulates the pH of the duodenum by (1) inhibiting the secretion of gastric acid from the parietal cells of the stomach and (2) stimulating the production of bicarbonate (NaHCO<sub>3</sub>) from the ductal cells of the pancreas (By similarity). Production of bicarbonate is essential to neutralize the pH and ensure no damage is done to the small intestine by the gastric acid. In addition to regulating the pH of the duodenal content, plays a central role in diet induced thermogenesis: acts as a non-sympathetic brown fat (BAT) activator mediating prandial thermogenesis, which consequentially induces satiation. Mechanistically, secretin released by the gut after a meal binds to secretin receptor (SCTR) in brown adipocytes, activating brown fat thermogenesis by stimulating lipolysis, which is sensed in the brain and promotes satiation. Also able to stimulate lipolysis in white adipocytes (By similarity). Also plays an important role in cellular osmoregulation: released into the systemic circulation in response to hyperosmolality and acts at different levels in the hypothalamus, pituitary and kidney to regulate water homeostasis (By similarity). Also plays a role in the central nervous system, possibly by acting as a neuropeptide hormone: required for hippocampal synaptic function and neural

progenitor cells maintenance (By similarity).

**Cellular Location**  
Secreted.

**Secretin (5-27), porcine - Images**