

**Gastrin Releasing Peptide, porcine**  
**Synthetic Peptide**  
**Catalog # SP2517b****Specification**

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**Gastrin Releasing Peptide, porcine - Product Information**

Primary Accession	<a href="#">P63153</a>
Other Accession	<a href="#">P63152</a>
Sequence	NH2-APVSVGGGTVLAKMYPRGNHWAVGHLM-CONH2

**Gastrin Releasing Peptide, porcine - Additional Information****Other Names**

Gastrin-releasing peptide, GRP, Neuromedin-C, GRP-10, GRP

**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.

**Gastrin Releasing Peptide, porcine - Protein Information****Name** GRP**Function**

Stimulates the release of gastrin and other gastrointestinal hormones (PubMed:<a href="http://www.uniprot.org/citations/496973" target="\_blank">496973</a>). Contributes to the perception of prurient stimuli and to the transmission of itch signals in the spinal cord that promote scratching behavior (By similarity). Contributes primarily to nonhistaminergic itch sensation (By similarity). In one study, shown to act in the amygdala as part of an inhibitory network which inhibits memory specifically related to learned fear (By similarity). In another study, shown to act on vasoactive intestinal peptide (VIP)-expressing cells in the auditory cortex, most likely via extrasynaptic diffusion from local and long-range sources, to mediate disinhibition of glutamatergic cells via VIP cell-specific GRPR signaling which leads to enhanced auditory fear memories (By similarity). Contributes to the regulation of food intake (By similarity). Inhibits voltage-gated sodium channels but enhances voltage-gated potassium channels in hippocampal neurons (By similarity). Induces sighing by acting directly on the pre-Botzinger complex, a cluster of several thousand neurons in the ventrolateral medulla responsible for inspiration during respiratory activity (By similarity).

**Cellular Location**

Secreted {ECO:0000250|UniProtKB:P07492}. Cytoplasmic vesicle, secretory vesicle lumen

{ECO:0000250|UniProtKB:Q863C3}. Cell projection, neuron projection  
{ECO:0000250|UniProtKB:Q8R1I2}. Note=In neurons of the retrotrapezoid nucleus/parafacial respiratory group, expressed on neuron projections which project into the pre-Botzinger complex  
{ECO:0000250|UniProtKB:Q8R1I2}

### **Gastrin Releasing Peptide, porcine - Images**