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Gastrin Releasing Peptide (1-16), porcine

Synthetic Peptide
Catalog # SP2516b

Specification

Gastrin Releasing Peptide (1-16), porcine - Product Information

Primary Accession	P63152
Other Accession	P63153
Sequence	**NH2-APVSVGGGTVLAKMYP-COOH**

Gastrin Releasing Peptide (1-16), 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 (1-16), porcine - Protein Information

Name GRP

Function
Stimulates the release of gastrin and other gastrointestinal hormones (By similarity). 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 (1-16), porcine - Images