

What is the function of growth hormone?

Growth hormone (GH) is secreted by the anterior pituitary gland and plays a key role in controlling tissue and body growth. While basal GH secretion is considerably reduced along adulthood and aging, several situations of metabolic stress can lead to robust increases in circulating GH levels. The ob ...

Where is growth hormone secreted?

1. Introduction Growth hormone (GH) is a single-chain 191 amino acid protein (its major isoform) which is mostly secreted by somatotrophic cells located in the anterior pituitary gland. GH presents a pulsatile secretion pattern that is controlled by hypophysiotropic hypothalamic neurons (Figure 1).

How does stress affect growth hormone levels?

Print 2023 Jan 1. Growth hormone (GH) is secreted by the anterior pituitary gland and plays a key role in controlling tissue and body growth. While basal GH secretion is considerably reduced along adulthood and aging, several situations of metabolic stress can lead to robust increases in circulating GH levels.

Is GH a pleiotropic hormone?

Not applicable. Articles from Cells are provided here courtesy of Multidisciplinary Digital Publishing Institute (MDPI) Growth hormone (GH) and insulin-like growth factor-1 (IGF-I) are pleiotropic hormones with important roles in lifespan.

Why is GH considered a metabolic hormone?

Thus, in addition to its well-known effects of stimulating protein synthesis, tissue growth, and cell proliferation, GH should be considered a metabolic hormone which, besides acting in peripheral tissues, also fulfills important functions in the central nervous system.

How does growth hormone affect metabolism?

6. Conclusions Growth hormone (GH) is secreted by the pituitary gland, and in addition to its classical functions of regulating height, protein synthesis, tissue growth, and cell proliferation, GH exerts profound effects on metabolism. In this regard, GH ...



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