

Ghrelin-30

Circulating orexigenic peptide that requires fatty acid modification.

GOAT links dietary lipids with the endocrine control of energy balance

Central nervous system nutrient sensing and afferent endocrine signaling have been established as parallel systems communicating metabolic status and energy availability in vertebrates. The only afferent endocrine signal known to require modification with a fatty acid side chain is the orexigenic hormone ghrelin. We find that the ghrelin O-acyl transferase (GOAT), which is essential for ghrelin acylation, is regulated by nutrient availability, depends on specific dietary lipids as acylation substrates and links ingested lipids to energy expenditure and body fat mass. These data implicate the ghrelin-GOAT system as a signaling pathway that alerts the central nervous system to the presence of dietary calories, rather than to their absence as is commonly accepted.

Kirchner et al. Nat Med. 2009 Jul;15(7):741-5.

RELATED PRODUCTS

Catalog Number	Product Name	Standard Size
032-30	Ghrelin (1-30), (Acetyl-Ser3) (Human)	200 µg
B-032-30	Ghrelin (1-30), (Acetyl-Ser3) (Human) - Biotin Labeled	10 µg
T-032-30	Ghrelin (1-30), (Acetyl-Ser3) (Human) - I-125 Labeled	10 µCi
032-28	Ghrelin (1-30), (Des-Octanoyl) (Human)	200 µg
B-032-28	Ghrelin (1-30), (Des-Octanoyl) (Human) - Biotin Labeled	10 µg
T-032-28	Ghrelin (1-30), (Des-Octanoyl) (Human) - I-125 Labeled	10 µCi
032-29	Ghrelin (1-30), (Ser3-Octanoyl) (Human)	200 µg
B-032-29	Ghrelin (1-30), (Ser3-Octanoyl) (Human) - Biotin Labeled	10 µg
T-032-29	Ghrelin (1-30), (Ser3-Octanoyl) (Human) - I-125 Labeled	10 µCi
032-32	Ghrelin (1-30), [Dap-Octanoyl3] (Human)	200 µg
B-032-32	Ghrelin (1-30), [Dap-Octanoyl3] (Human) - Biotin Labeled	10 µg
T-032-32	Ghrelin (1-30), [Dap-Octanoyl3] (Human) - I-125 Labeled	10 µCi
032-31	Ghrelin (1-30), [Dap3] (Human)	200 µg
B-032-31	Ghrelin (1-30), [Dap3] (Human) - Biotin Labeled	10 µg
T-032-31	Ghrelin (1-30), [Dap3] (Human) - I-125 Labeled	10 µCi



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