What are GIP and GLP-1?

GIP: glucose-dependent insulinotropic polypeptide

GLP-1: glucagon-like peptide-1

GIP and GLP-1 are natural incretin hormones responsible for regulating blood sugar levels in response to eating food.¹ When food is consumed, GIP and GLP-1 are released from the intestines, and these increase insulin secretion from the pancreas. In people without type 2 diabetes, GIP has a greater effect on insulin release than GLP-1 does.²

Potential Actions of GIP and GLP-1*1



PANCREAS

GIP Activity Increases insulin Increases glucagon

GLP-1 Activity Increases insulin Reduces glucagon

SYSTEMIC EFFECTS

GIP AND GLP-1 Activity

Increases insulin sensitivity



BRAIN

GLP-1 Activity Reduces food intake

GIP Activity May reduce food intake



STOMACH

GLP-1 Activity

Slows passing of food through the stomach

Lilly

* Much of these data are derived from animal studies and more research is needed to better understand the effect of GIP and GLP-1 on the human body

- 1. Samms RJ, Coghlan MP, Sloop KW. How may GIP enhance the therapeutic efficacy of GLP-1? Trends Endocrinol Metab. 2020;31(6):410-421
- 2. Michael A. Nauck, Juris J. Meier; GIP and GLP-1: Stepsiblings Rather Than Monozygotic Twins Within the Incretin Family. Diabetes. 1 May 2019; 68 (5): 897–900.

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