PRODUCT INFORMATION



Glucose-dependent Insulinotropic Polypeptide (1-42) (porcine) (trifluoroacetate salt)

Item No. 36905

Formal Name:	$\label{eq:loss} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	e — Ala Phe — Va
Synonyms:	Gastric Inhibitory Peptide (1-42), GIP (1-42)	
Peptide Sequence:	: YAEGTFISDYSIAMDKIRQQDFVNWLLAQKGKKSDWKHNITQ-OH	
MF:	С ₂₂₅ Н ₃₄₂ N ₆₀ O ₆₆ S • XCF ₃ COOH	
FW:	4,975.6	
Purity:	≥98%	
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Glu—Gly—Thr—Phe—Ile—Ser—Asp—Tyr la—Met—Asp—Lys—IIe—Arg—Gln—Gln— Val—Asn—Trp—Leu—Leu—Ala—Gln—Lys— _ys-Ser-Asp-Trp-Lys-His-Asn-Ile Thr-Gln-OH

• XCF₃COOH

Laboratory Procedures

Glucose-dependent Insulinotropic Polypeptide (GIP) (1-42) (porcine) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the GIP (1-42) (porcine) (trifluoroacetate salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

GIP (1-42) is an endogenous 42-amino acid peptide incretin hormone that induces insulin secretion.^{1,2} It is expressed in intestinal neuroendocrine K cells and the submandibular gland and is released into circulation postprandially. GIP (1-42) inhibits histamine, pentagastrin, and insulin-induced gastric acid and pepsin secretion, increases glucose-induced insulin release, and stimulates gastric emptying in rats.³

References

- 1. Fehmann, H.-C. and Göke, B. Characterization of GIP(1-30) and GIP(1-42) as stimulators of proinsulin gene transcription. Peptides 16(6), 1149-1152 (1995).
- 2. Siskos, A.P., Katsila, T., Balafas, E., et al. Simultaneous absolute quantification of the glucose-dependent insulinotropic polypeptides GIP_{1-42} and GIP_{3-42} in mouse plasma by LC/ESI-MS/MS: Preclinical evaluation of DP-IV inhibitors. *J. Proteome Res.* **8(7)**, 3487-3496 (2009).
- 3. Rossowski, W.J., Zacharia, S., Mungan, Z., et al. Reduced gastric acid inhibitory effect of a pGIP(1-30)NH₂ fragment with potent pancreatic amylase inhibitory activity. Regul. Pept. 39(1), 9-17 (1992).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

uyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 05/09/2024

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM