

## GIP, human TFA

Cat. No.:	HY-P0276A
Molecular Formula:	C <sub>228</sub> H <sub>339</sub> F <sub>3</sub> N <sub>60</sub> O <sub>68</sub> S
Molecular Weight:	5097.62
Sequence:	Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-His-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Ile-Thr-Gln n
Sequence Shortening:	YAEGTFISDYSIAMDKitHQQDFVNWLAAQKGKNDWKHNITQ
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder      -80°C      2 years -20°C      1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 10 mg/mL (1.96 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration	Mass		
		1 mM	1 mg	5 mg
	1 mM		0.1962 mL	0.9808 mL
	5 mM		---	---
	10 mM		---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

Description	GIP, human TFA, a peptide hormone consisting of 42 amino acids, is a stimulator of glucose-dependent insulin secretion and a weak inhibitor of gastric acid secretion. GIP, human TFA acts as an incretin hormone released from intestinal K cells in response to nutrient ingestion <sup>[1][2][3]</sup> .
In Vitro	Gastric Inhibitory Polypeptide (GIP) exerts various peripheral effects on adipose tissue and lipid metabolism, thereby leading to increased lipid deposition in the postprandial state <sup>[1]</sup> . GIP, human plays a vital role in lipid metabolism and the development of obesity.  MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- Toxins. 2021, 13(8), 512.

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## REFERENCES

- [1]. Meier JJ, et al. Gastric inhibitory polypeptide: the neglected incretin revisited. *Regul Pept.* 2002 Jul 15;107(1-3):1-13.
- [2]. Miyachi A, et al. Quantitative analytical method for determining the levels of gastric inhibitory polypeptides GIP1-42 and GIP3-42 in human plasma using LC-MS/MS/MS. *J Proteome Res.* 2013;12(6):2690-2699.
- [3]. Gabe MBN, et al. Molecular interactions of full-length and truncated GIP peptides with the GIP receptor - A comprehensive review. *Peptides.* 2020;125:170224.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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