GIP (1-30) amide,human

Cat. No.:	HY-P2080
CAS No.:	198624-01-0
Molecular Formula:	$C_{162}H_{240}N_{40}O_{47}S$
Molecular Weight:	3531.94
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-NH2
Sequence Shortening:	YAEGTFISDYSIAMDKIHQQDFVNWLLAQK-NH2
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	GIP (1-30) amide,human is a glucose-dependent insulinotropic polypeptide (GIP) fragment. GIP is an incretin hormone that stimulates insulin secretion and reduces postprandial glycaemic excursions. GIP (1-30) amide,human dose-dependently promotes insulin secretion over the range 10^{-9}-10^{-6} M[1].
In Vitro	The glucose-dependent action of Glucose-dependent insulinotropic polypeptide (GIP) on pancreatic β-cells has attracted attention towards its exploitation as a potential drug for type 2 diabetes. In a 50% aqueous trifluoroethanol solvent, GIP(1-30) amide has an α-helical structural region from F6 to A28. The structures calculated for GIP(1-30) amide remain within one family of conformations and the level of agreement between the structures demonstrated the ordered arrangement[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alaña I, et al. NMR structure of the glucose-dependent insulinotropic polypeptide fragment, GIP(1-30)amide. Biochem Biophys Res Commun. 2004 Dec 3;325(1):281-6.

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