

GIP (1-30) amide,human acetate

Cat. No.:	HY-P2080B
Molecular Formula:	C ₁₆₄ H ₂₄₄ N ₄₀ O ₄₉ S
Molecular Weight:	3591.99
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-NH ₂ <small>Y A E G T F I S D Y S I A M D K I H Q Q D F V N W L L A Q K - N H ₂ (acetate salt)</small>
Sequence Shortening:	Y A E G T F I S D Y S I A M D K I H Q Q D F V N W L L A Q K - N H ₂
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (13.92 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.2784 mL	1.3920 mL	2.7840 mL	
		5 mM	0.0557 mL	0.2784 mL	0.5568 mL	
		10 mM	0.0278 mL	0.1392 mL	0.2784 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	GIP (1-30) amide,human acetate 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 acetate 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

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

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