GIP (1-30) amide, porcine TFA

Cat. No.: HY-P2541A

Molecular Formula: $C_{164}H_{246}F_3N_{41}O_{49}S$

Molecular Weight: 3665.02

Sequence: Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-Arg-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-NH2

YAEGTFISDYSIAMDKIRQQDFVNWLLAQK-NH2 (TFA salt)

Sequence Shortening: YAEGTFISDYSIAMDKIRQQDFVNWLLAQK-NH2

Target: Insulin Receptor

Pathway: Protein Tyrosine Kinase/RTK

Storage: Sealed storage, away from moisture and light

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)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (27.28 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (ultrasonic) (insoluble)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.2728 mL	1.3642 mL	2.7285 mL
	5 mM	0.0546 mL	0.2728 mL	0.5457 mL
	10 mM	0.0273 mL	0.1364 mL	0.2728 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (0.68 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (0.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GIP (1-30) amide, porcine TFA is a full glucose-dependent insulinotropic polypeptide (GIP) receptor agonist with high affinity equal to native GIP(1-42)[1]. GIP (1-30) amide, porcine is a weak inhibitor of gastric acid secretion and potent stimulator of insulin.

REFERENCES

[1]. L S Hansen, et al. N-terminally and C-terminally truncated forms of glucose-dependent insulinotropic polypeptide are high-affinity competitive antagonists of the human GIP receptor. Br J Pharmacol. 2016 Mar;173(5):826-38.

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