GRF (1-29) amide (rat)

Cat. No.: HY-P1155

CAS No.: 91826-20-9

Molecular Formula: $C_{155}H_{251}N_{49}O_{40}S$

Molecular Weight: 3473.08

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

HADAIFTSSYRRILGQLYARKLLHEIMNR-NH_2

Sequence Shortening: HADAIFTSSYRRILGQLYARKLLHEIMNR-NH2

Target: Others

Pathway: Others

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

H_2O : 16.67 mg/mL (4.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.2879 mL	1.4396 mL	2.8793 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description GRF (1-29) amide (rat) is a synthetic peptide which can stimulate the growth hormone (GH) secretion.

In Vivo Time course studies of GRF (1-29) amide (rat) disappearance show apparent half-lives of 18±4 min and 13±3 min in serum and liver homogenate, respectively. This is accompanied by the appearance of degradation products that are all less hydrophobic than the native peptide. In the serum, two major metabolites are detected and isolated by preparative HPLC[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	To isolate GRF metabolites in the liver, rGRF(1-29)NH_2 (10 mg) is first preincubated in 232 mL of Krebs' buffer (5 min, 37°C) to help GRF solubilization and then incubated with a liver homogenate in a shaking bath at 37°C. The homogenate is prepared as in the degradation assays with 580 mg of liver (10 mg/mL). The reaction is stopped after 30 min by adding 174 mL of cold 50 mM phosphate solution (pH 0.8) and centrifugation (48,000×g, 20 min, 4°C). The supernatant is filtered twice and its pH is adjusted (3.0) with 6 N NaOH before chromatography. The GRF metabolites and residual rGRF(1-29)NH_2 are isolated[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Environ Sci Technol. 2021 Jun 1.

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REFERENCES

[1]. Boulanger L, et al. Catabolism of rat growth hormone-releasing factor(1-29) amide in rat serum and liver. Peptides. 1992 Jul-Aug;13(4):681-9.

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