Product Data Sheet

Product Name: rGHRH(1-29)NH2
Cat. No.: GC34251

Chemical Properties

Cas. No.			
SMILES	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		
Formula	$C_{155}H_{251}N_{49}O_{40}S$	M.Wt	3473.02
Solubility	Water : ≥ 50 mg/mL (14.40 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	rGHRH(1-29)NH2		

Protocol

Cell experiment:

To isolate GRF metabolites in the liver, rGRF(1-29)NH2 (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)NH2 are isolated[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.

Background

rGHRH(1-29)NH2 is a synthetic peptide which can stimulate the growth hormone (GH) secretion.

Time course studies of rGRF(1-29)NH2 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].

[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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