Human growth hormone-releasing factor

Cat. No.:	HY-P0089
CAS No.:	83930-13-6
Molecular Formula:	$C_{215}H_{358}N_{72}O_{66}S$
Molecular Weight:	5039.65
Sequence:	Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH2
Sequence Shortening:	YADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERGARARL-NH2
Target:	GHSR
Pathway:	GPCR/G Protein
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)

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SOLVENT & SOLUBILITY

In Vitro

H_2O : 25 mg/mL (4.96 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.1984 mL	0.9921 mL	1.9843 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Human growth hormone-releasing factor (Growth Hormone Releasing Factor human) is a hypothalamic polypeptide and stimulates GH production and release by binding to the GHRH Receptor (GHRHR) on cells in the anterior pituitary[1].

In Vitro

The GHRHR is a member of the class II B GPCR family, which couples predominantly to the Gs-adenylate cyclase-cAMP signaling pathway. Peptide hormones that activate class II GPCRs include GHRH, secretin, glucagon-like peptides, gastric-inhibitory peptide (GIP), pituitary adenylate cyclase-activating peptide, corticotropin-releasing hormone, vasoactive intestinal peptide, parathyroid hormone, and calcitonin-related peptides[1].

GHRH, expressed in the arcuate nucleus of the hypothalamus and released into portal vasculature, directly stimulates growth hormone synthesis and secretion from the pituitary somatotropes by activating the corresponding GHRH receptors [1].

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

REFERENCES

[1]. Fridlyand LE, et al.Growth Hormone-Releasing Hormone in Diabetes.Front Endocrinol (Lausanne). 2016 Oct 10;7:129. eCollection 2016.

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

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