

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-NH ₂		
Sequence Shortening:	YADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERGARARL-NH ₂		
Target:	GHSR		
Pathway:	GPCR/G Protein		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

Human growth hormone-releasing factor

SOLVENT & SOLUBILITY

In Vitro

 H₂O : 25 mg/mL (4.96 mM; Need ultrasonic and warming)

Concentration	Mass		
	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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